

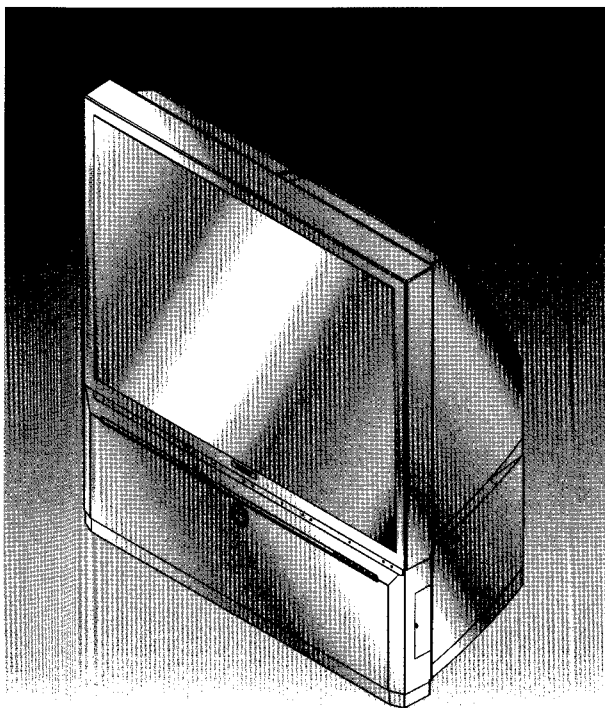
SAMSUNG

PROJECTION TV RECEIVER

Chassis : J54A(P) C2.0

SERVICE Manual

PROJECTION TV RECEIVER



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1. Alignment and Adjustments
2. Exploded View and Parts List
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1. Alignment and Adjustments

1-1 When entering the service mode;

1. Turn on the TV, and then select "DYNAMIC" on the picture adjustment mode.
2. Turn off the TV(STAND-BY).
3. Enter the service mode by pressing the remote control keys in the following sequence:

Display -> Menu -> Mute -> Power ON

Note : If necessary, re-do steps 1~3.

Initial display when the service mode is switched.

1-1-1 WHEN A RF SIGNAL IS RECEIVED

MODEL(T_CM2P06_002)

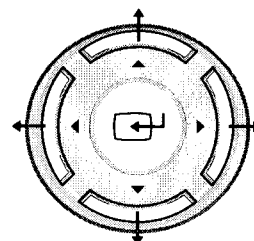
DEFLECTION
VIDEO ADJUST 1
VIDEO ADJUST 2
VIDEO ADJUST 3
VIDEO ADJUST 4
OPTION (87h 05ch)
YC DELAY
RESET
T_CM2906_002 yy.mm.dd

MODEL(T_CMDEAC_XXX)

DEFLECTION
VIDEO ADJUST 1
VIDEO ADJUST 2
VIDEO ADJUST 3
VIDEO ADJUST 4
OPTION (EF 8E 2E)
YC DELAY
RESET
T_CMDEAC_XXX yy.mm.dd

1-1-2 SERVICE MODE CONTROL KEYS

MAIN MENU	MENU DISPLAY
UP / DOWN	Select item by moving cursor
RIGHT / LEFT	Decrease or increase the adjustment values



[Navigation Key]

⚠ PRECAUTIONS

1. When EEPROM IC (IC902) is replaced, first connect the power cord and wait for about 4~5 seconds.
2. After replacing EEPROM IC (IC902), enter the Service mode. Next, enter the standard data or the previous EEPROM IC data before replacement. And then check and adjust any items related to Geometric, Picture, Option.

1-2 FACTORY MODE MENU

1-2-1 MODEL(T_CM2906_002)

1-2-1(A) DEFLECTION

Item	Range	Initial Data		Remark
		4:3	Wide	
V Amp	0 ~ 63	39	31	Variable
V Shift	0 ~ 63	31	31	FIX
H EW	0 ~ 63	44	31	Variable
H Shift	0 ~ 63	31	31	FIX
V Linearity	0 ~ 15	7		FIX
Upper Linearity	0 ~ 15	0		FIX
Lower Linearity	0 ~ 15	0		FIX
V SC	0 ~ 15	7		FIX
H Parabolra	0 ~ 63	25	31	FIX
Upper Corner	0 ~ 63	37	31	FIX
Lower Corner	0 ~ 63	33	31	FIX
H Trapezium	0 ~ 63	31		FIX
Bow	0 ~ 63	31		FIX
Angle	0 ~ 63	31		FIX
V Position	0 ~ 63	31		FIX
Up UCG	0 ~ 3	0		FIX
Lo UCG	0 ~ 3	0		FIX
CXA Left Blk	0 ~ 63	50		FIX
CXA Right Blk	0 ~ 63	25		FIX

1-2-1(B) VIDEO ADJUST1

Item	Range	Initial Data	Remark
R Cutoff	0 ~ 63	25	Variable
G Cutoff	0 ~ 63	25	FIX
B Cutoff	0 ~ 63	25	Variable
Color On/Off	0 ~ 1	1	Variable
CB Offset	0 ~ 63	31	Variable
CR Offset	0 ~ 63	31	Variable
R Drive	0 ~ 63	25	Variable
G Drive	0 ~ 63	25	FIX
B Drive	0 ~ 63	25	Variable
Sub Bright	0 ~ 63	15	Variable
Sub Contrast	0 ~ 15	8	Variable
Sub Color	0 ~ 23	3	FIX
Sut Tint	0 ~ 63	31	FIX
CTI Level	0 ~ 3	1	FIX
COL Axis	0 ~ 3	1	FIX
LTI Level	0 ~ 3	1	FIX
VSU	0 ~ 15	2	FIX
Melody Volume	0 ~ 20	7	FIX
LIT Mode	0 ~ 3	1	FIX
System	0 ~ 3	1	FIX

1-2-1(C) VIDEO ADJUST2

Item	Range	Initial Data	Remark
ABL Level	0 ~ 3	3	FIX
Gamma	0 ~ 3	1	FIX
DPIC Level	0 ~ 3	2	-
DC Trans	0 ~ 3	3	FIX
ABL TH	0 ~ 15	15	FIX
VM Level	0 ~ 3	1	-
VM Corint	0 ~ 15	0	FIX
VM f0	0 ~ 3	1	FIX
VM Limit	0 ~ 3	1	FIX
VM Delay	0 ~ 3	1	FIX
SHP CD	0 ~ 3	0	FIX
SHP f0	0 / 1	1	FIX
SHP f1 & P/O	-	11	FIX
AKB Time	0 ~ 63	13	FIX
BandPass 9407	-	24	-
HighPass 9407	-	40	-
S ABL	0 ~ 3	0	FIX
P ABL	0 ~ 15	15	FIX

1-2-1(D) VIDEO ADJUST3

Item	Range	Initial Data		Remark
		4:3	Wide	
H Comp	0 ~ 15	8	13	FIX
V Comp	0 ~ 15	5	12	
Pin Comp	0 ~ 7	0		
AFC Comp	0 ~ 7	0		
H-Sync Phase	0 / 1	0		
NR Off Value	0 ~ 9	6		
CG HAO	0 ~ 20	10		
CG VAO	0 ~ 20	15		
NR High Ref	0 ~127	40		
NR Low Ref	0 ~127	3		
NR High Value	0 ~255	17		
NR Low Value	0 ~255	51		
NR Hight Ref(S)	0 ~127	20		
NR Low Ref(s)	0 ~127	0		
NR High Value(S)	0 ~255	17		
NR Low Value(S)	0 ~255	51		
NR Read M/S	0/27	0	0	

1-2-1(E) VIDEO ADJUST4

Item	Range	Initial Data	Remark
SECAM Color Main	0 ~255	28	FIX
SECAM Color Pip	0 ~255	28	
Picture Limit	0 ~ 3	3	
OSD Contrast	0 ~ 15	10	
TTX Contrast	0 ~ 15	3	

1-2-1(F) OPTION

Item	Setting Data	Appliance		Remark
		CW	CS	
SYSTEM	CS/CW	CW	CS	Area Option
SOUND	A2-NICAM/Dolby-Prologic	Dolby Prlogic		-
ASPECT	WIDE / 4:3	-		Inch Option
WIDE 4:3	ON/OFF	-		Inch Option
X-RAY	ON/OFF	ON		-
AUTO FM	ON/OFF	ON		-
PIP	ON/OFF	ON		-
LNA	ON/OFF	ON		-
Letter Box	ON/OFF	ON		-
TTX Lang.Grp	West/East/CIS/Turk&Grk	-		Area Option
AGC	ON/OFF	OFF		-
Natural Zoom	ON/OFF	OFF		-

1-2-1(G) YC DELAY

Item	Range
P.YC(AV) Delay	1
S.YC(AV) Delay	-5
N.YC(AV) Delay	1
P.BG.YC Delay	1
P.DK.YC Delay	-2
P.I.YC Delay	0
P.M.YC Delay	0
P.N.YC Delay	0
S.BG.YC Delay	-7
S.DK.YC Delay	-9
S.I.YC Delay	-9
S.M.YC Delay	-7
S.L.YC Delay	-10
N.M.YC Delay	3
N4.43 YC Delay	-6

1-2-2 CS MODEL(T_CMDEAC_XXX)**1-2-2(A) DEFLECTION**

Item	Range	Initial Data												Remark
		42W5		47W1		43T6/43T7		48T6		54T6		62T6		
		NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	NTSC	PAL	
V Amp	0 ~ 63	48	48	48	48	48	48	48	48	48	48	48	48	Variable
V Shift	0 ~ 63	31	31	31	31	31	31	31	31	31	31	31	31	FIX
H EW	0 ~ 63	48	48	48	48	48	48	48	48	48	48	48	48	Variable
H Shift	0 ~ 63	24	24	24	24	24	24	24	24	24	24	24	24	FIX
V Linearity	0 ~ 15	7		7		7		7		7		7		FIX
Upper Linearity	0 ~ 15	0		0		0		0		0		0		FIX
Lower Linearity	0 ~ 15	0		0		0		0		0		0		FIX
V SC	0 ~ 15	2		2		2		2		2		2		FIX
H Parabolra	0 ~ 63	15		15		15		15		15		15		FIX
Upper Corner	0 ~ 63	33		33		33		33		33		33		FIX
Lower Corner	0 ~ 63	33		33		33		33		33		33		FIX
H Trapezium	0 ~ 63	18		18		18		18		18		18		FIX
Bow	0 ~ 63	31		31		31		31		31		31		FIX
Angle	0 ~ 63	31		31		31		31		31		31		FIX
V Position	0 ~ 63	31		31		31		31		31		31		FIX
Up UCG	0 ~ 3	0		0		0		0		0		0		FIX
Lo UCG	0 ~ 3	0		0		0		0		0		0		FIX
CXA Left Blk	0 ~ 63	50		50		50		50		50		50		FIX
CXA Right Blk	0 ~ 63	25		25		25		25		25		25		FIX

1-2-2(B) VIDEO ADJUST1

Item	Range	Initial Data	Remark
R Cutoff	0 ~ 63	20	Variable
G Cutoff	0 ~ 63	20	Variable
B Cutoff	0 ~ 63	20	Variable
Color On/Off	0 ~ 1	1	FIX
CB Offset	0 ~ 63	31	Variable
CR Offset	0 ~ 63	31	Variable
R Drive	0 ~ 63	31	Variable
G Drive	0 ~ 63	31	Variable
B Drive	0 ~ 63	31	Variable
Sub Bright	0 ~ 63	20	Variable
Sub Contrast	0 ~ 15	8	Variable
Sub Color	0 ~ 23	15	FIX
Sut Tint	0 ~ 63	31	FIX
CTI Level	0 ~ 3	1	FIX
COL Axis	0 ~ 3	2	FIX
LTI Level	0 ~ 3	1	FIX
VSU	0 ~ 15	2	FIX
Melody Volume	0 ~ 20	4	FIX
LIT Mode	0 ~ 3	1	FIX
System	0 ~ 3	1	FIX

1-2-2(C) VIDEO ADJUST2

Item	Range	Initial Data	Remark
ABL Level	0 ~ 3	3	FIX
Gamma	0 ~ 3	1	FIX
DPIC Level	0 ~ 3	3	FIX
DC Trans	0 ~ 3	2	FIX
ABL TH	0 ~ 15	15	FIX
VM Level	0 ~ 3	2	FIX
VM Coring	0 ~ 15	0	FIX
VM f0	0 ~ 3	1	FIX
VM Limit	0 ~ 3	1	FIX
VM Delay	0 ~ 3	1	FIX
SHP CD	0 ~ 3	0	FIX
SHP f0	0 / 1	1	FIX
SHP f1 & P/O	-	11	FIX
AKB Time	0 ~ 63	13	FIX
BandPass 9407	-	24	FIX
HighPass 9407	-	40	FIX
S ABL	0 ~ 3	0	FIX
P ABL	0 ~ 15	15	FIX

1-2-2(D) VIDEO ADJUST3

Item	Range	Initial Data	Remark
H Comp	0 ~ 15	2	FIX
V Comp	0 ~ 15	4	
Pin Comp	0 ~ 7	3	
AFC Comp	0 ~ 7	0	
H-Sync Phase	0 / 1	0	
NR Off Value	-	6	
CG HAO	0 ~ 20	10	
CG VAO	0 ~ 20	15	
NR High Ref	0 ~127	40	
NR Low Ref	0 ~127	3	
NR High Value	-	17	
NR Low Value	-	51	
NR Hight Ref(S)	0 ~127	20	
NR Low Ref(s)	0 ~127	0	
NR High Value(S)	-	17	
NR Low Value(S)	-	51	
NR Read M/S	-	0 0	

1-2-2(E) VIDEO ADJUST4

Item	Range	Initial Data	Remark
SECAM Color Main	0 ~255	28	FIX
SECAM Color Pip	0 ~255	28	
Picture Limit	0 ~ 3	3	
OSD Contrast	0 ~ 15	10	
TTX Contrast	0 ~ 15	3	

1-2-2(F) OPTION

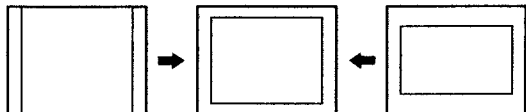
Item	Setting Data	Appliance (Southeast Asia)	Appliance (CHINA)	Appliance (Middle East)
LANGUAGE	ENG+THAI / ENG+CHINA ENG+MIDDLE / ONLY ENG	ONLY ENG ENG+THAI(Thailand)	ENG+CHINA	ENG+MIDDLE
SOUND	A2-NICAM/Virtual Dolby /Dolby Prologic	Dolby Prologic	Dolby Prologic	Dolby Prologic
CRT	WIDE / 4:3	4:3(Optional)	4:3(Optional)	4:3(Optional)
CHANNEL	100-channel / 200-channel /250-channel	100-channel	200-channel	250-channel
X-LAY	OFF / ON	ON	ON	ON
TTX	OFF / ON	ON	OFF	ON
AUTO FM	OFF / ON	ON	ON	ON
PIP	OFF / 2-TUNER	2-TUNER	2-TUNER	2-TUNER
MULTI PIP	OFF / ON	ON	ON	ON
LNA	OFF / ON	ON	ON	ON
HIGH DEV	OFF / ON	OFF	OFF	OFF
SCART	RCA+1SCART+DVD / RCA+DVD	RCA+1SCART+DVD	RCA+DVD	RCA+1SCART+DVD
LETTER BOX	OFF / ON	ON	ON	ON
DW PIP	OFF / ON	ON	ON	ON
LIST PRIOR	OFF / ON	OFF ON(AUSTRALIA)	OFF	OFF
TTX LANG	WEST EUROPE / EAST EUROPE RUSSIAN / GREEK-TURKEY ARABIC / FARSI / ARAB-HEBREW	WEST EUROPE	WEST EUROPE	ARABIC
AGC	OFF / ON	OFF/ON(Thailand)	OFF	OFF
AV MEMORY	OFF / ON	OFF	OFF	OFF
AUSTRALIA	OFF / ON	OFF	OFF	OFF
CG BRIGHT	OFF/ON	OFF	OFF	OFF

1-2-2(G) YC DELAY

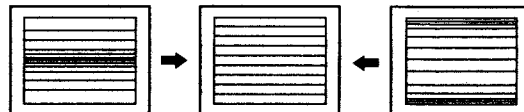
Item	Range
P.YC(AV) Delay	1
S.YC(AV) Delay	-5
N.YC(AV) Delay	1
P.BG.YC Delay	1
P.DK.YC Delay	-2
P.I.YC Delay	-2
P.M.YC Delay	0
P.N.YC Delay	0
S.BG.YC Delay	-7
S.DK.YC Delay	-10
S.I.YC Delay	-9
S.M.YC Delay	-7
S.L.YC Delay	-10
N.M.YC Delay	3
N.443.YC Delay	-1

1-3 Screen Change (When Adjusting I²C Bus Geometric Items)

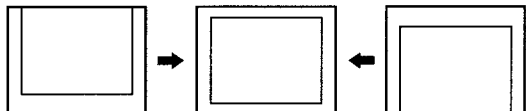
1 V AMP



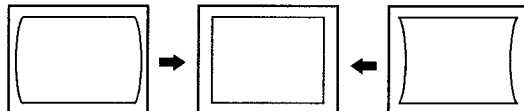
6 V - S - CORRECTION



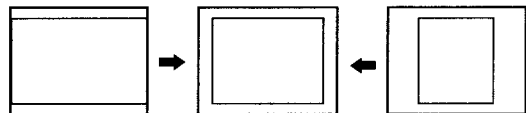
2 V SHIFT



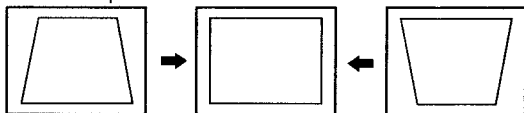
7 H Parabolra



3 H EW



8 H Trapezium



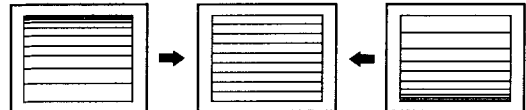
4 H SHIFT



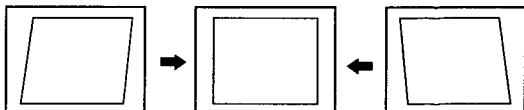
9 BOW



5 V LINEARITY



10 ANGLE



1-4 Other Adjustments

1-4-1 Screen Adjustment

1. Warm up the TV for at least 30 minutes.
2. Select the "DYNAMIC" Video mode.
3. Turn to the Video Mode(No Signal) using a remote-control.
4. Connect an oscilloscope to RK, GK, BK.
5. Adjust the VR (VR501, VR531, VR561) screen so that RK, GK, BK pulse is 20Vp-p each. (Turn the R,G,B VR screen fully counterclockwise in the area of each flyback line.)

1-4-2 White Balance Adjustment

1. Select the "DYNAMIC" video mode.
2. Input 100% white pattern.
3. In the stand-by mode, press the remote-control keys in the following sequence:
Display → Menu → Mute → Power ON
4. Warm up the TV for at least 30 minutes.
5. Input a 10-step signal.
6. R-cut off, B-cut off, and G-cut off by pressing the Volume +/- keys.
7. Adjust the low light with viewing the dark side of the screen.
8. Select R-drive, G-drive and B-drive by pressing the Volume +/- keys.
9. Adjust the high light with viewing the light side of the screen.
10. If necessary, redo adjustments 6~9.
11. Press the Menu key to exit.

1-4-3 Sub-Brightness Adjustment

1. Input a sub-brightness adjustment signal. (TOSHIBA PATTERN)
2. In the stand-by mode, press the remote-control

keys in the following sequence :

Display → Menu → Mute → Power ON

3. Select Sub-Bright by pressing the Volume +/- keys.
4. Adjust so that the 63 step on the right side of the screen is not seen (Use the Volume +/- keys).
5. Press the Menu key to exit.

1-4-4 High Voltage (29KV) Check

PRECAUTION

1. Input a lion head pattern.
2. Select "DYNAMIC" video mode.
3. Warm up the TV for at least 10 minutes.
4. Use a 1000:1 probe.

ADJUSTMENT

1. Connect the (+) terminal of the 10000:1 probe to the high voltage distributor and the (-) terminal to GND(located on the deflection board).
2. Adjust RR471S (located on the deflection board) so that the digital meter indicates $DC290V \pm 0.1V$.

4-4-5 F.S. (Fail Safe) Circuit Check

Note : The finished product has a well-mounted VR(RR402S).

If necessary, do the F.S adjustments in the following sequence.

1. Use a digital multimeter.
2. Connect the digital multimeter to the JIG pin (DZ482S) terminals.
3. Adjust VR(RR402S) so that the voltage becomes 2.25V.
4. After the adjustments are complete be sure to mount VR(RR402S) correctly.

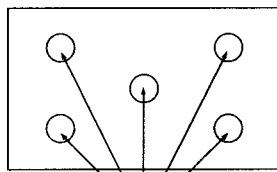
1-4-6 Static Focus Adjustment

PRECAUTION

1. Select the "DYNAMIC" video mode.
2. Input a crosshatch pattern.
3. Cover the lenses that are not being adjusted.
4. Connect a convergence jig and read data.
5. Adjust the lens for best focus.
(See Fig. 4-1)

STATIC FOCUS (CONTINUED)

Vary the focus pack VR (Red, Blue) on the front cabinet. Adjust the TV for best possible focus around the center of the crosshatch pattern, without losing overall screen balance.
Figure Crosshatch Pattern
Examine these points together.



Examine these points together
Fig. 4-1 Crosshatch Pattern.

1-4-7 Lens Focus Adjustment

PRECAUTIONS

1. Do this adjustment after the static focus adjustment and the tilt adjustment.
2. Select the "DYNAMIC" video mode.
(Contrast:100, Brightness:50)
3. Input a crosshatch pattern.

ADJUSTMENT

1. Loosen the lens screws.
2. Cover the two lenses that are not being adjusted.
3. Adjust the lens, observing the color aberration vertically and horizontally within 3 blocks of the center of the crosshatch pattern.

4. When the lens is turned clockwise, the color aberration will change as follows:

<u>Lens</u>	<u>Color Aberration Change</u>
R	Orange - Crimson
G	Blue - Red
B	Purple - Green

5. Green lens adjustment:
Set the lens at the point where Blue just changes to Red. If the color aberration is irregular throughout the picture screen, adjust the lens to show Red color aberration (approximately 1~3 mm area) within a 3-block grid around the horizontal center-line. If the color aberration is irregular, adjust the lens as shown in the diagram below. (Accurate alignment of Green is important for overall color quality.)
6. Red lens adjustment
Set the Red lens at the point where Orange becomes Crimson.
7. Blue lens adjustment
Set the Blue lens at the point where Purple becomes Green.

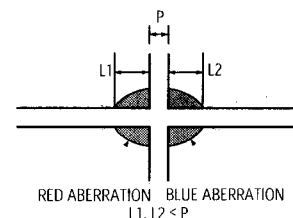
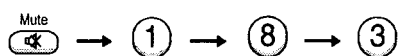


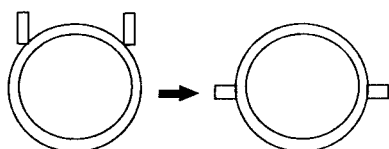
Fig. 4-2 Color Aberration

1-5 Beam alignment Adjustments

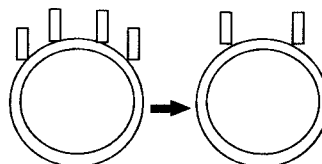
1. Select the "DYNAMIC" video mode.
2. Warm up the set at least for 10 minutes.
3. Enter the Convergence mode by pressing the remote control buttons in the following sequence :



4. Set the Beam Alignment Adjustment CY to Zero magnetic field area.



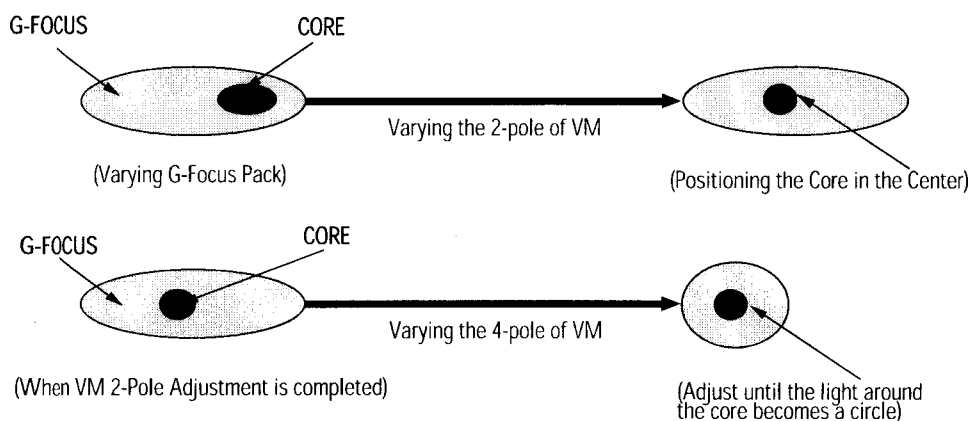
(Creation of CPM Zero Magnet)



(Creation of the 2-pole/4-pole zero magnets)

5. Check the squarewave at the point where the focus is misaligned.
6. Press the ⑦ button on the remote control during 3~5 sec and vibrating dot-pattern appears.
7. Adjust the Focus-pack VR for defocusing.
8. Mute the other patterns (R/B) other than G-PATTERN.

(Use / TV buttons on the remote control.)



9. Adjust the 2, 4 polarities of VM-COIL as shown in figure below.
10. Adjust the G-Focus until any light around the core disappears.
11. Adjust G-Focus so that the surrounding flash can disappear from the spot.
12. After G-Focus adjustments are complete, adjust R-Focus as above procedures.
13. The B-CRT adjustments can be omitted because the variance of beam focus is small.
(Only Vm-coil is mounted.)
14. Adjust the Focus-pack VR for fine focusing.
15. Press the ⑦ button on the remote control, and the mode changes to the Convergence Adjustment mode.
16. Press the button on the remote control to return to normal viewing.

1-6 High Voltage Part

1-6-1 PWM REG Circuit

For the existing high voltage REG circuit (input voltage variation type), a dynamic REG response is not provided. So it is difficult for both beam linearity and uniformity in screen size to be maintained on the screen with rapidly changing beams.

A PWM (Pulse Width Modulation) type of high voltage, however, provides the maintenance of beam linearity and uniformity in screen size via a quick response to beam change by performing sync lock every 1H line, and detecting beam fluctuation at 1H line, and then controlling the IC current of high voltage output circuit.

1. High Voltage Fluctuation Detect (DC Detect)

FBT pin 11 detects DC high voltage fluctuation. The detected DC high voltage value is input to PWM IC471 pin1 through R473, VR471, R471, and then it is input to a differential AMP circuit that differentiates the gap after comparing with the reference voltage input to pin2.

2. High Voltage Fluctuation Detect (AC Detect)

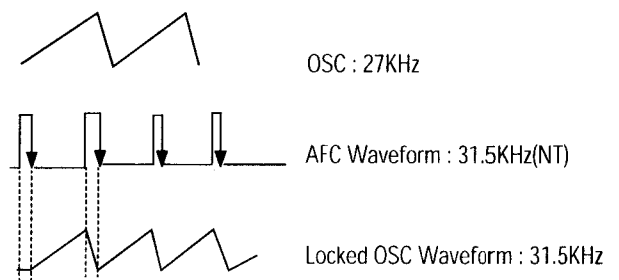
To check AC high voltage fluctuation, the output from FBT is detected by using a capacitor inside the high voltage distributor. The detection of AC high voltage fluctuation, a detection of dynamic beam current change is required in order to keep beam linearity and uniformity in size.

Regarding the capacitor, a capacity of less than 3000P should be applied to a PWM type. (The existing type needs a capacity of about 6000P.) AC detect circuit eliminates unnecessary high frequency by using C476, D472. Also, AC gain is limited to + / - 0.7V (D472). This AC gain is combined with the detection value of DC high voltage fluctuation by using C478.

3. PWM IC OSC Sync Lock

A PWM type IC needs sync lock for PWM pulse and horizontal scan line.

The standard time constant of OSC circuit is determined by C487, R475 (PWM IC pins 5 and 6). And the standard OSC frequency is about 27 kHz. The horizontal frequency of scan line is 31.5kHz(NT), 31.25kHz(PAL), so sync lock for this horizontal frequency should be performed using sync lock circuit. The sync lock circuit consists of Q481(Tr KSC815-Y), D479, D478, and C492. The input AFC signal is connected to PWM IC pin 5 through D479 so that it can be negative Trig.



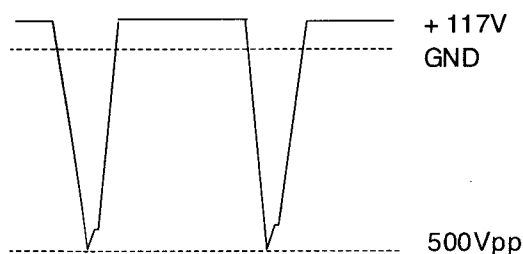
4. Dead Time (HV Protect)

Dead Time (PWM IN pin4) consists of C481, delays high voltage for a certain time to soft start in power on, a x-ray protection circuit. The voltage of Dead Time is detected by FBT pin7 and through DC Feedback. The normal voltage of Dead Time is +27V. When high voltage increases, however, detected voltage is in proportion to high voltage. Then, the detected voltage is applied to ICR01S(TL431).

If the voltage is over 2.5V (normal: about 2.25V), TL431 turns ON, the base port of QR401S becomes low, and then an emitter current flows. At this time, a high voltage protection point is set. When QR401S turns ON, high voltage is applied to PWM IC pin4 and then muted.

5. Output Circuit

The voltages, which are detected form an error detection circuit of PWM IC (Differential AMP) and Dead Time, each is applied to PWM comparator. Due to these detection coltages, Q1, Q2 (Output TR) parallel operate. Q482 (External TR), however, functions as a buffer; natches impedance between the output port of PWM IC and the final output TR(IRFS640). The PWM pulse (applied to the final output FET (IRFS640 GATE) varies the IC current of high voltage TR(Q473) by adjusting the load impedance of starage Trans (T431). Due to this variation of current, the gain for Q473 emitter pulse changes T444(FBT)makes this emitter pulse became high voltage. Such change keeps both dynamic and static changes fixed. The output waveform of high voltage TR emitter is as shown in the figure below.



6. Parameters according to beam

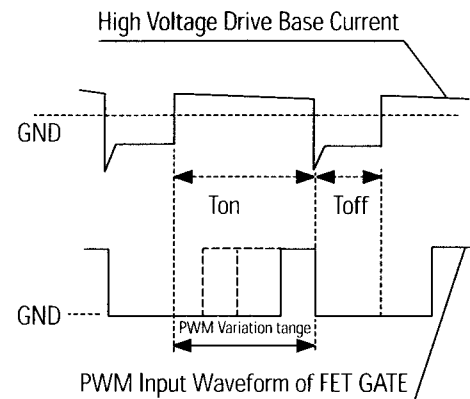
To maintain the set high voltage value (31kV), parmaters such as +Ve (DC), Vcp High Voltage change (See the table below).

Factor of high voltage change	Parameters			
	Width of FET Gate Pulse	+ Ve (DC)	Vcp	High Voltage
Beam ↓ (High voltage ↑)	↓	↑	↓	↓
Beam ↓ (High voltage ↑)	↑	↓	↑	↑

7. Response Waveform

To reduce unstable high voltage fluctuation, the existing high voltage type REG circuit controls dynamic fluctuation by using C-block capacitor. But, it can't detect actual dynamic fluctuation. Also, its velocity of response to static fluctuation is late because +B power supply changes per

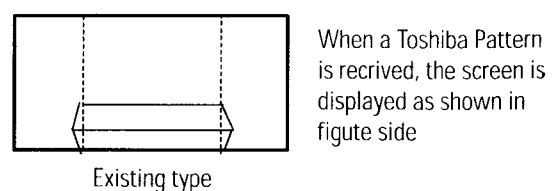
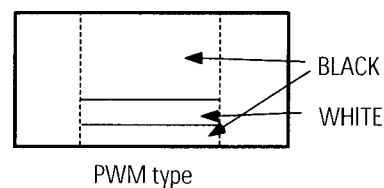
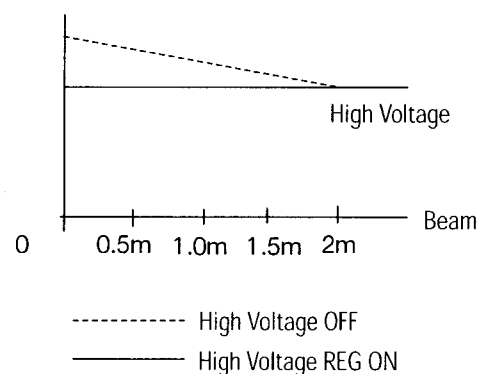
about 1V. A PWM modulation type REG detects static, dynamic high voltage fluctuation for only Ton Time (when the current of the output TR collector flows) each 1H, and modulates the width of PWM pulse. So, this PWM type has better improvement in the characteristic of high voltage REG as compared to the existing type.



8. Application Effects

- 1) Improvement of horizontal size fluctuation
- 2) Linearity improved
- 3) Embodiment of X-ray protection circuit

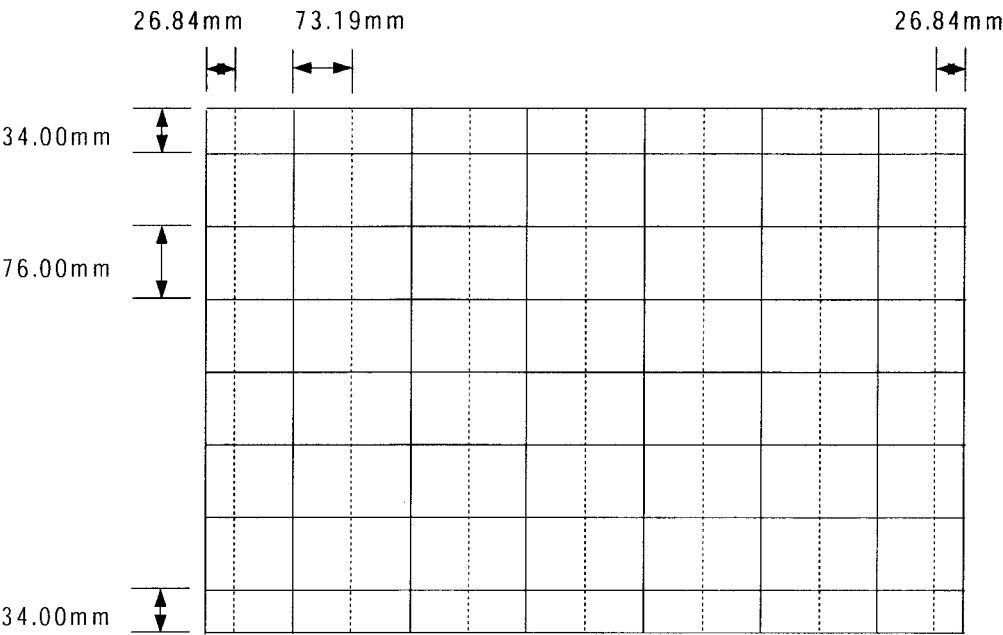
The figures below show characteristics when a PWM high vltage REG circuit is applied.



1-6 SCREEN-JIG

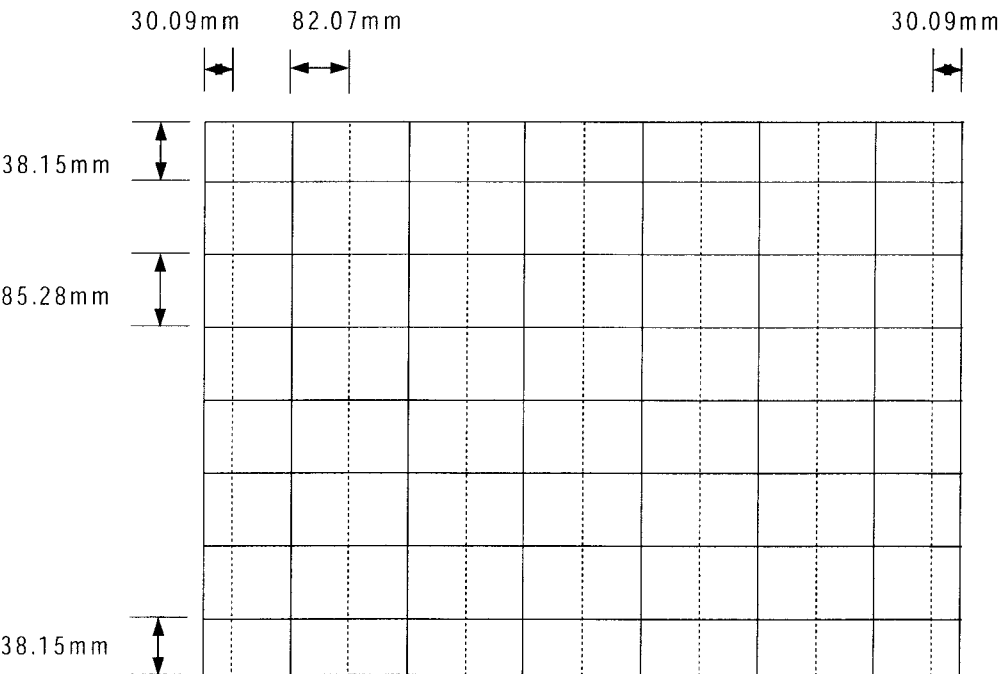
1-6-1 42W5

42W5 Screen Size : X 932, Y 524 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



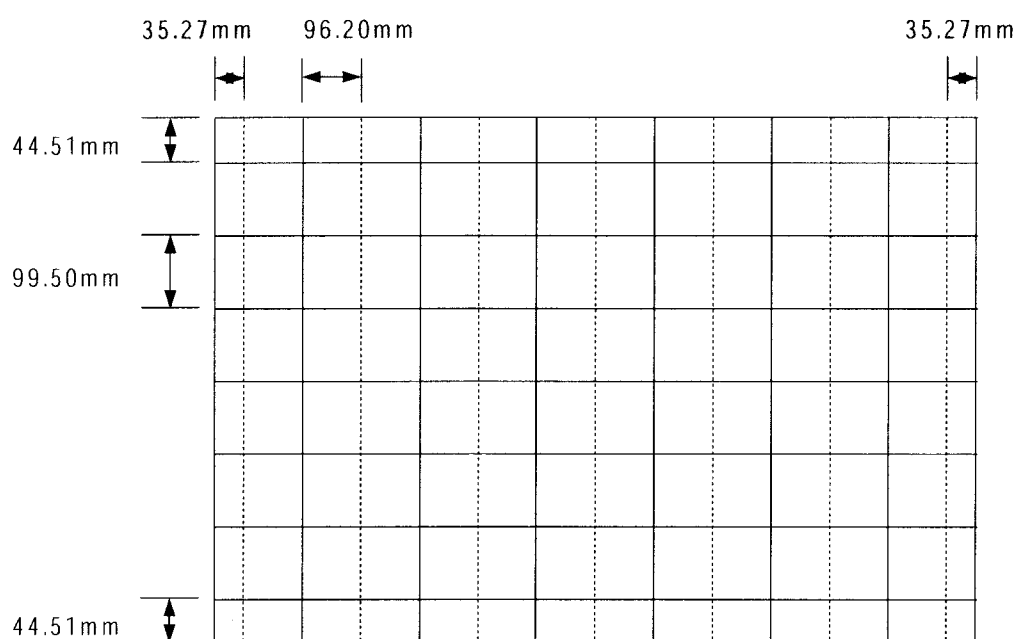
1-6-2 47W3

47W3 Screen Size : X 1045, Y 588 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



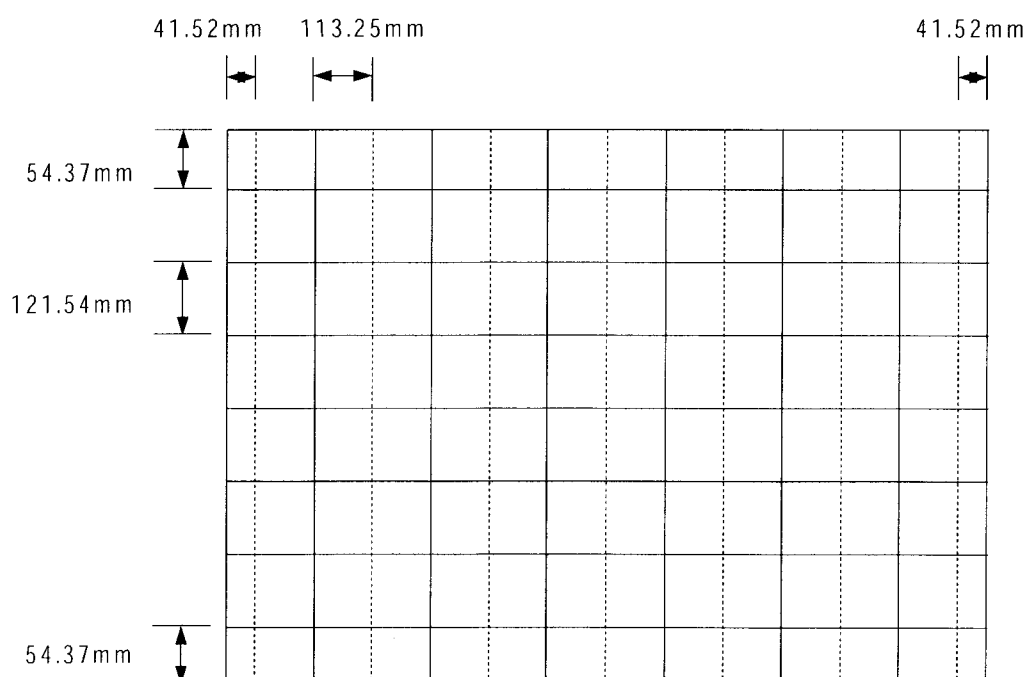
1-6-3 55W3

55W3 Screen Size : X 1225, Y 686 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



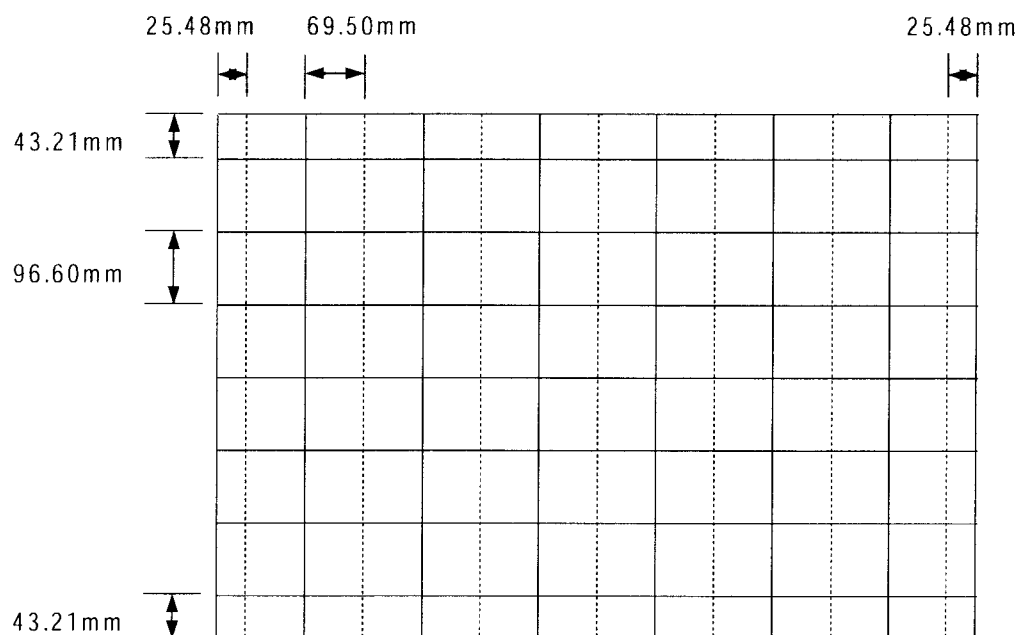
1-6-4 65W3

65W3 Screen Size : X 1442, Y 838 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



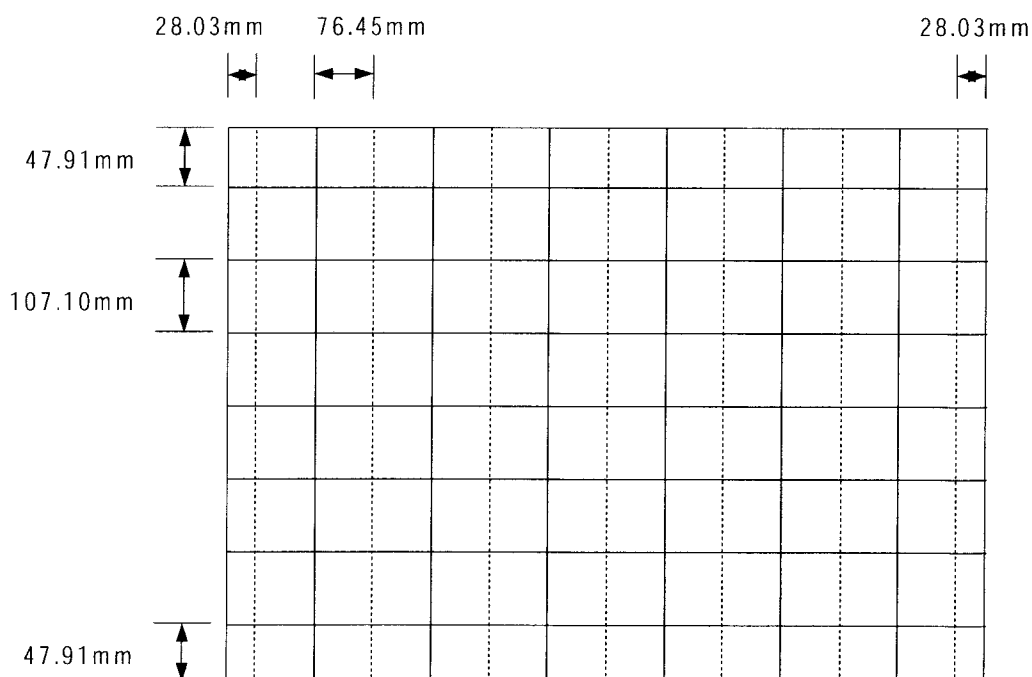
1-6-5 43T6/43T7

43T6 Screen Size : X 885, Y 666 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



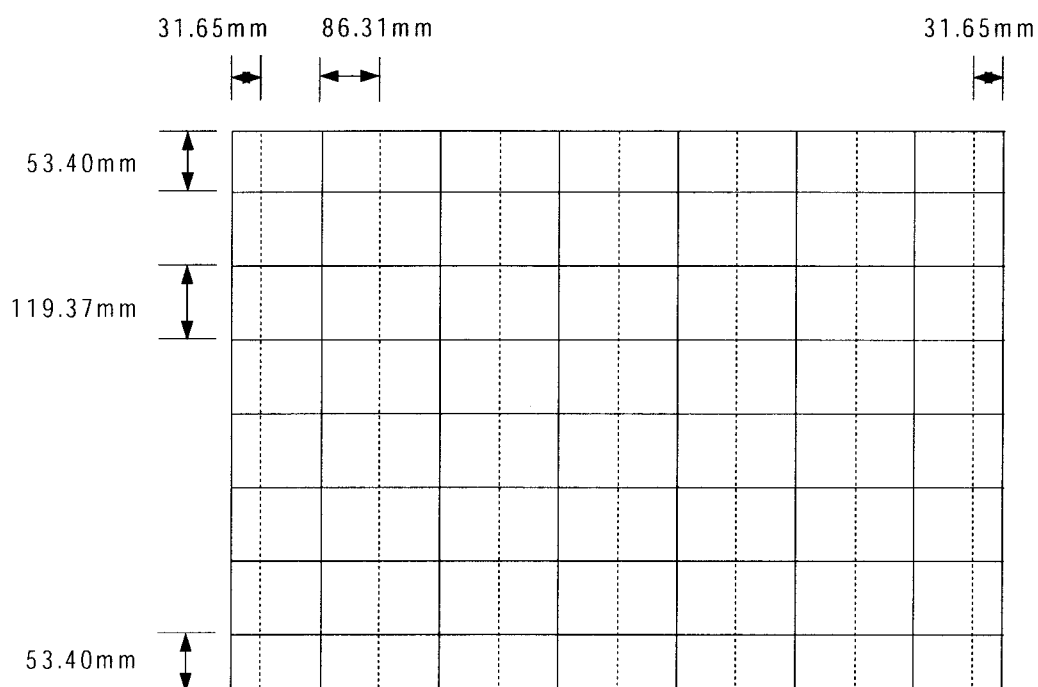
1-6-6 48T6

48T6 Screen Size : X 973.4 Y 738.4 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



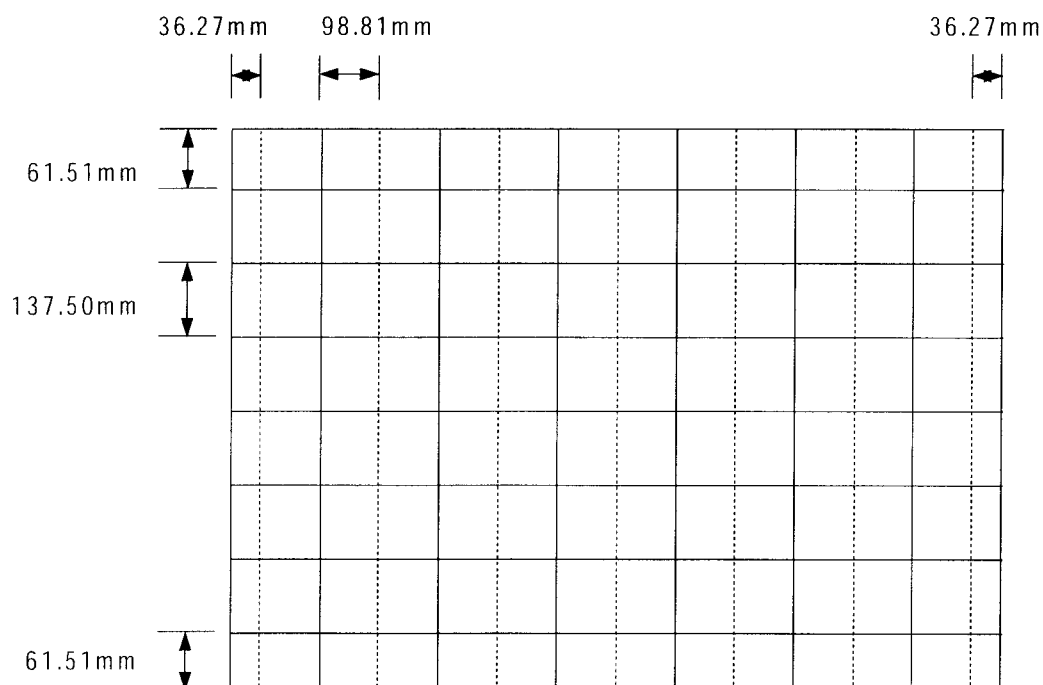
1-6-7 54T6

54T6 Screen Size : X 1099 Y 823 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE

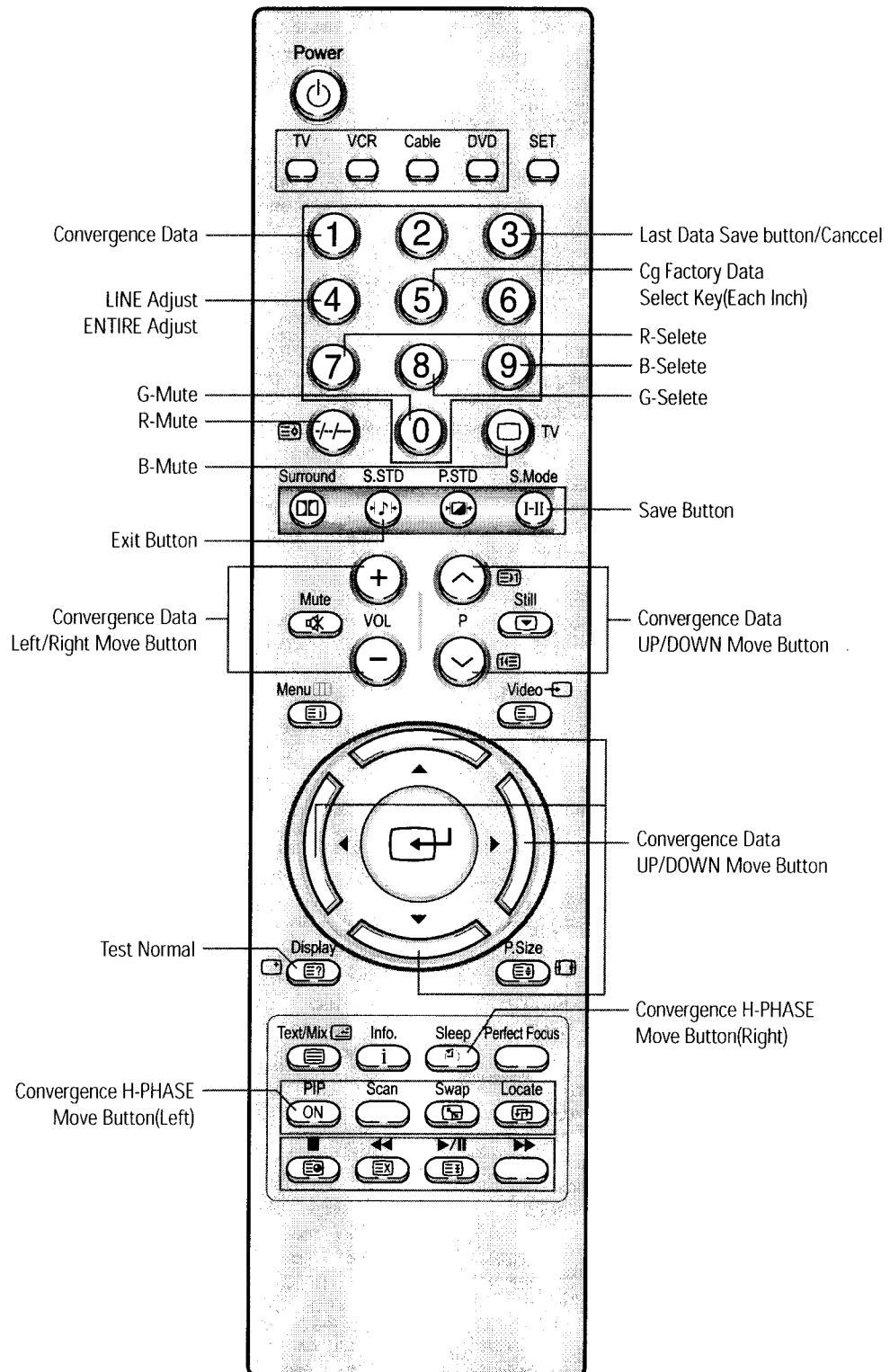


1-6-8 62T6

62T6 Screen Size : X 1259.4, Y 948 (X:764 = 22 x 2 + 60 x 12, Y:262 = 17 x 2 + 38 x 6)-PAL MODE



1-7 Remote Control for Servicing(Convergence Mode)

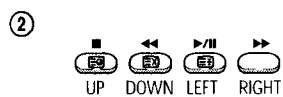
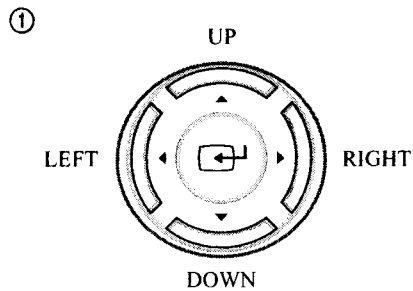


1-7-1 KEY Function

1. R-SELECT 
Press to select RED color.
2. G-SELECT 
Press to select GREEN color.
3. B-SELECT 
Press to select BLUE color.
4. R-MUTE 
Press to mute RED color.
5. G-MUTE 
Press to mute GREEN color.
6. B-MUTE 
Press to mute BLUE color.
7. CANCEL KEY 
Press to revert to the previous data during the Convergence Adjustment.
8. TEST/NORMAL 
Press to check TV mode in the Convergence Mode.
9. LINE SHIFT 
Press to move a line up/down or left/right.
10. FACTORY DATA SELECT BUTTON 
Press to call the factory default values.
11. SAVE BUTTON 
After the Convergence Adjustments are completed, press to save data.
12. EXIT BUTTON 
After the Convergence adjustments are completed, press to exit to TV mode.

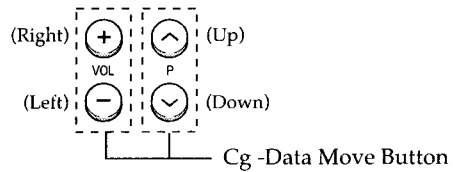
13. CURSOR MOVE BUTTON

Press to move the cursor up/down or right/left.



- ③ (Mute) Press to move the cursor left or up.
 (Video) Press to move the cursor right or down.
 (Menu) Press switch the cursor direction horizontally or vertically.

14. CONVERGENCE PICTURE MOVE BUTTON



15. CONVERGENCE MOVE BUTTON

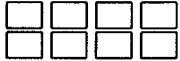
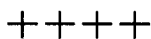
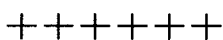
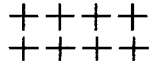
Press to move the convergence right () or left ().

16. CONVERGENCE DATA ZERO BUTTON ①

Press to zero the convergence correction data.

17. INITIAL DATA SET BUTTON ②

Changes when applying Almighty-Cg, Module (How to extract the basic Cg Data)

Inch (Type)	Model Name	Basic Data	Screen Display
	Representative Model	Number after entering the Cg-Mode	
42" (42W5)	SP42W5	5-425 (Press in regular order)	
47" (47W3)	SP47W3	5-473(Press in regular order)	
55" (55W3)	SP55W3	5-553(Press in regular order)	
43" (43T6)	SP43T6	5-436(Press in regular order)	
43" (43T7)	SP43T7	5-437(Press in regular order)	
48" (48T6)	SP48T6	5-485(Press in regular order)	
54" (54T6)	SP54T6	5-545(Press in regular order)	
62" (62T6)	SP62T6	5-625(Press in regular order)	
65"(65W3)	SP65W3		

18. Data shift Button Press to transmit data(PAL Mode/NTSC Mode).

1-8 Convergence Adjustment

1-8-1 Convergence Adjustment



Special Notes

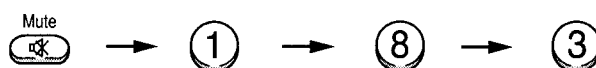
- ⇒ A sensor is attached on the center of each side of the Convergence Mode pattern (see figure below). The sensors are required for normal Perfect Focus function.
- ⇒ Use a screen jig to do the convergence adjustments correctly (Especially, perform correct convergence adjustments on the center of each side where a sensor is located.)
- ⇒ Do the convergence adjustments correctly. Otherwise, any Perfect Focus error can happen.

1. Warm up the TV for a least 30 minutes.
2. Input an PAL Signal.(Use an antenna or AV source.)

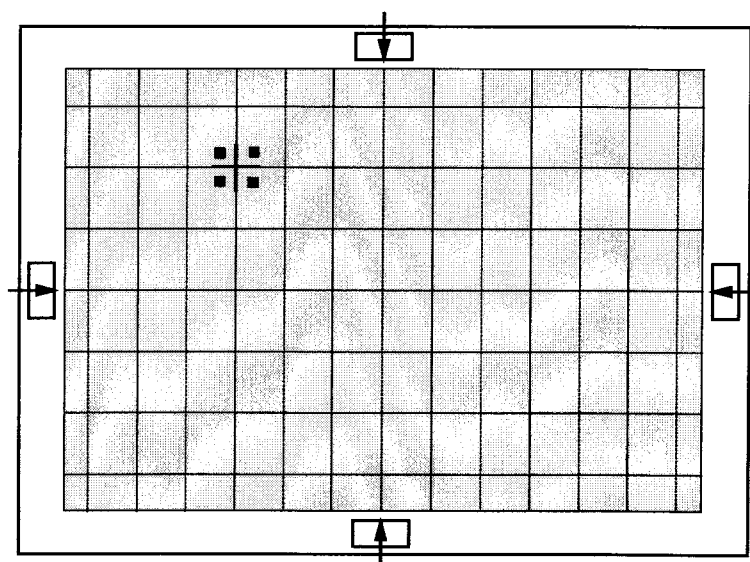


Make sure that deflection yoke are properly adjusted so that the center of Green, Red, Blue pattern is aligned on the center of screen jig.

3. Enter the Convergence Mode by Pressing the remote control keys in the following sequence:



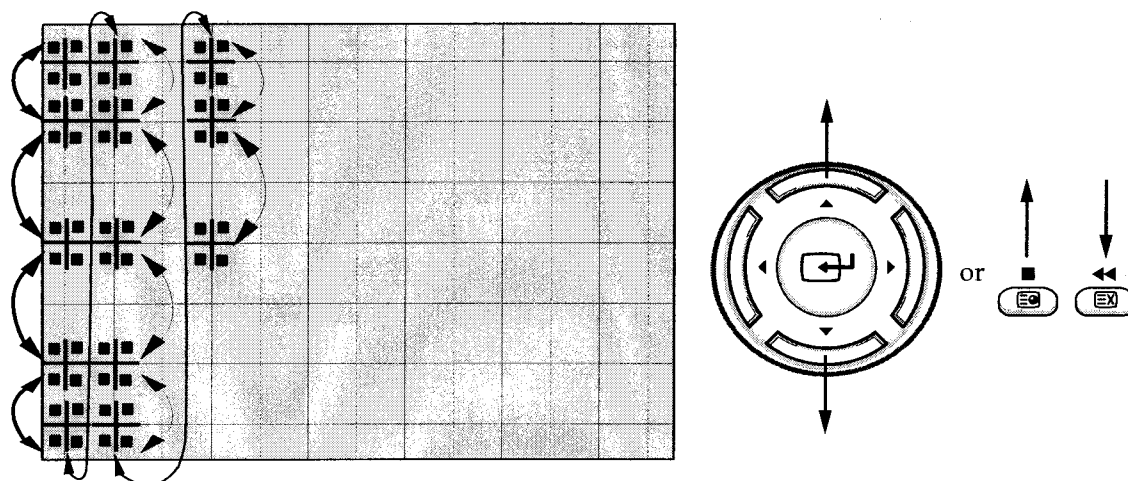
If OSD displayed as shown in figure below, press the S.STD (musical note icon) key to exit. Then, redo step 3 to enter the Convergence Mode. After entering the Convergence Mode, Stand by for about five seconds before doing the adjustments.



4. To adjust GREEN, first press the   and the  TV keys, and then press the  key.

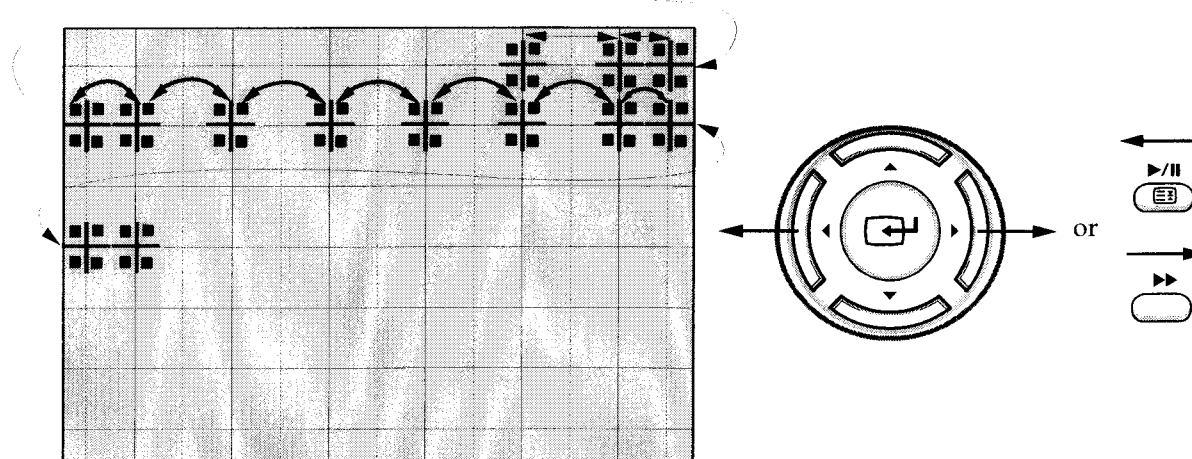


5. The  key moves the cursor horizontally or vertically

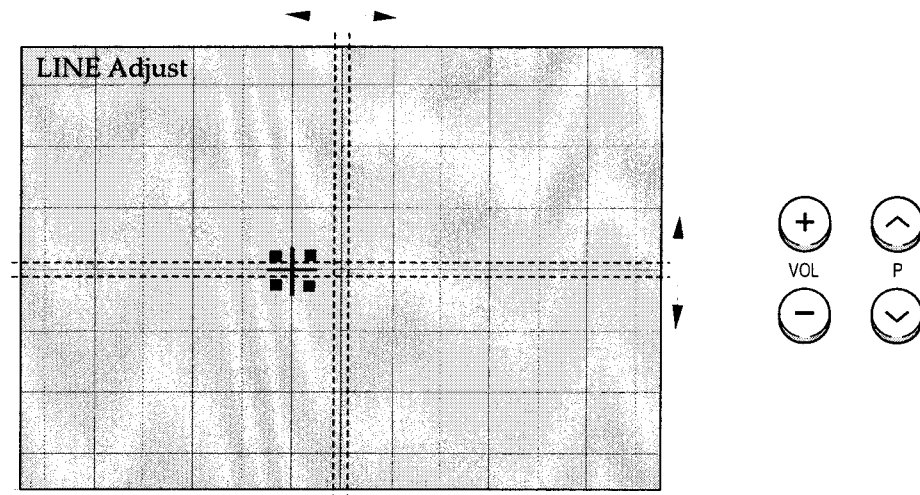


NOTE When the  key is pressed once again, the cursor moves horizontally.

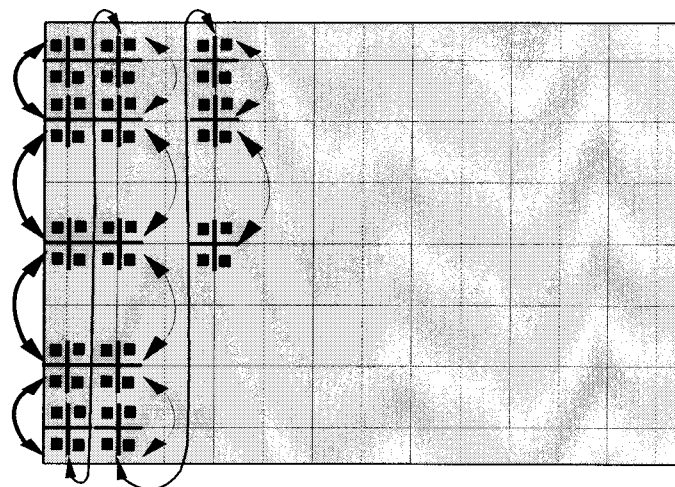
6. The  key moves the cursor right, and the  key moves the cursor left.



7. Use the **4** key for overall balance.



8. After the Line Shift is cancelled by pressing the **4** key, use the Channel and Volume keys (Up/Down /Right/Left) to make big adjustments.
9. After the green convergence adjustments are completed, press the **S.Mode** **I-II** key to save the data.
10. Superimpose the Red and Green colors by pressing the **Menu** **+/--** and the **7** keys.
11. To adjust RED, redo steps 5~7.

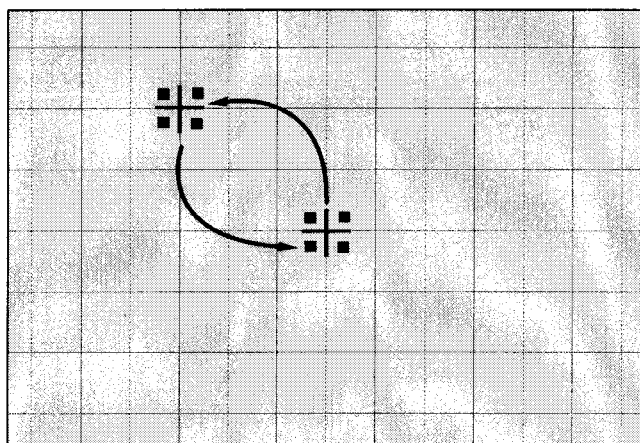


When the cursor moves vertically **Menu** **I-II**

12. To superimpose the blue and green colors, press (1) the   key for R-Mute, (2) the  TV key to cancel the B-Mute, and (3) the  key for B-select.
13. To adjust BLUE, redo steps 5 ~ 7, 13.
14. If any color is not properly adjusted when displaying the red, blue and green colors, readjust the color.
15. After the color adjustments are completed, press the  key to save the data.

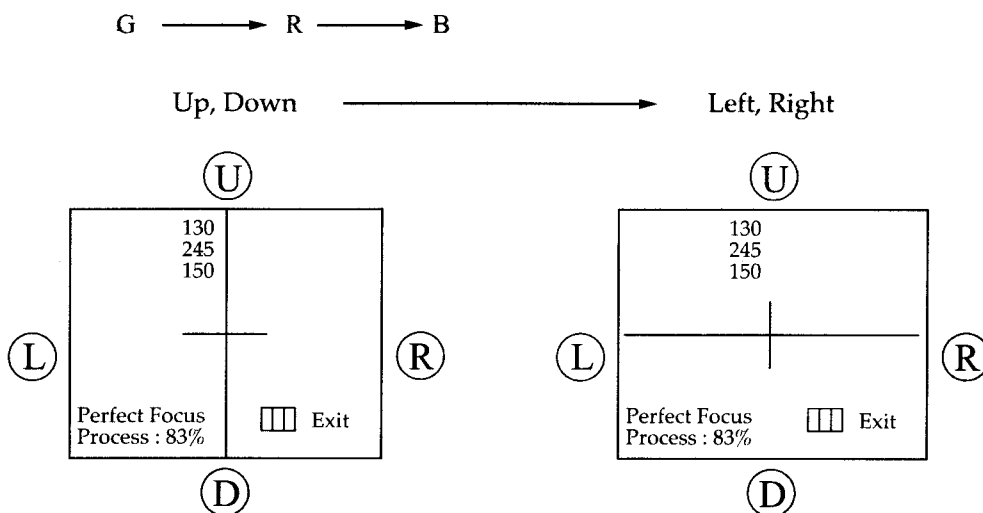


The cursor moves to center, and then automatically moves up and to the left about five seconds later.



1-8-2 Perfect Focus(Factory Mode)

1. After the adjustment is completely saved, press the Perfect Focus key to perform Auto Convergence(Factory Mode). Auto Convergence is performed in the following sequences:



When Auto Convergence is complete, the data is automatically saved and the convergence pattern reverts.



- ◆ After Factory Auto Convergence is complete, make sure that the cursor flickers for about 1 second on the center and then it is saved.
- ◆ Check the presence of error through the flicker of the cursor.
- ◆ When any error happens, be sure to re-do Factory Auto Convergence.
- ◆ When Convergence Adjustment is not normally done or the convergence center is misaligned with the sensing point, any adjustment error happens. Therefore, be sure to use a screen jig to correctly adjust during troubleshooting.

2. After the Convergence Adjustments are completed, press the ^{S.STD} key to exit.

1-9 MICOM and Pins Voltage

1-9-1 Pin Layout(T_CM2P06_XXX)

Pin	Signal	Pin	Signal
65	D2	64	D5
66	D12	63	D9
67	D10	62	D13
68	GND	61	ST3.3B
69	ST3.3B	60	GND
70	D4	59	D1
71	D3	58	D6
72	D11	57	D8
73	RESET	56	D14
74	SCL2	55	D0
75	SDA2	54	D7
76	IR	53	ST3.3B
77	COMP SW	52	GND
78	ST5V	51	D15
79	PROTECT	50	WR
80	WP	49	LDQM
81	S RESET	48	UDQM
82	AMP MUTE	47	RD
83	DEFL SW	46	CSROM
84	GND	45	CLKEN
85	ST3.3A	44	CSSDRAM
86	GND	43	CLKSDRAM
87	ST2.5B	42	ST3.3B
88	TXD	41	GND
89	RXD	40	A15/CAS
90	LED1	39	A14/RAS
91	LED2	38	A13
92	STOP	37	A0
93	N.C	36	A1
94	N.C	35	A2
95	T1	34	A3
96	T3	33	A4
97	1080i-SW	32	ST3.3B
98	SCL1	31	GND
99	SDA1	30	A12
100	SCAN-RST	29	A11
101	N.C	28	A10
102	VS2	27	A5
103	HS2	26	A6
104	N.C	25	A9
105	OSD-YS/YM	24	A7
106	ST3.3A	23	A8
107	GND	22	A16
108	XTAL1	21	ST2.5B
109	XTAL2	20	GND
110	GND	19	A17
111	ST2.5A	18	A18
112	OSD-R	17	A19
113	OSD-G	16	ST3.3B
114	OSD-B	15	ST3.3B
115	GND	14	ST3.3A
116	ST2.5A	13	GND
117	GND	12	MAIN SW1
118	GNA	11	MAIN SW2
119	ST2.5A	10	SUB SW1
120	GND	9	SUB SW2
121	TTX-CVBS	8	5VB
122	GND	7	AV LINK
123	ST2.5A	6	ST5V
124	KEYS1	5	C SPK MUTE
125	KEYS2	4	TDO
126	MAIN-AFT	3	TDI
127	SUB-AFT	2	TMS
128	GND	1	TCK

Samsung Electronics

1-9-3 MICOM MODULE Pins

PIN NO.	ITEM	FUNCTION	OUT VOLT
1	KEY 1	KEY SCAN1	2.28[V]
2	PROTECT	PROTECT PORT	0.83[mV]
3	KEY 2	KEY SCAN2	2.25[V]
4	GND	GND	-
5	N.C	N.C	-
6	STB-5(V)	VCC	4.91[V]
7	IR IN	REMOCON INPUT	3.74[V]
8	POWER	POWER ON/OFF RELAY CONTROL	1.03[V]
9	TIMER-LED	TIMER LED	2.07[V]
10	N.C	N.C	-
11	GND	GND	-
12	V-RESET	VIDEO RESET	2.84[mV]
13	SCL1	SERIAL CLOCK LINE1	3.43[V]
14	GND	GND	-
15	SDA1	SERIAL DATA LINE1	3.49[V]
16	S-RESET	SOUND RESET	4.21[V]
17	ST-BY-LED	STAND-BY LED	2.95[V]
18	RESET	RESET	2.47[V]
19	AMP-MUTE	SOUND AMP MUTE	0.89[mV]
20	N.C	N.C	-
21	GND	GND	-
22	N.C	N.C	-
23	SCL2	SERIAL CLOCK LINE2	3.27[V]
24	C-SPK MUTE	CENTER SPEAKER MUTE	3.26[V]
25	SDA2	SERIAL DATA LINE2	3.27[V]
26	SW3	SW3(CONTROL)	5[mV]
27	GND	GND	-
28	SW2	SW2(CONTROL)	2.08[V]
29	SUB-AFT	SUB TUNER AFT CONTROL	2.57[V]
30	GND	GND	-
31	MAIN-AFT	MAIN TUNER AFT CONTROL	1.04[V]
32	BUS-STOP	IIC BUS STOP	3.27[V]

PIN NO.	ITEM	FUNCTION	OUT VOLT
33	5[V]	5[V]	4.96[V]
34	H-BLANK	HORIZONTAL BLANK	215.8[mV]
35	GND	GND	-
36	V-BLANK	VERTICAL BLANK	-12.10[mV]
37	N.C	N.C	-
38	GND	GND	-
39	GND	GND	-
40	N.C	N.C	-
41	VS1	VERTICAL SYNC	-
42	N.C	N.C	-
43	HS1	HORIZONTAL SYNC	215.51[mV]
44	N.C	N.C	-
45	GND	GND	-
46	N.C	N.C	-
47	TTX-CVBS	TTX/CAPTION-CVBS	1.19[V]
48	GND	GND	-
49	GND	GND	-
50	N.C	N.C	-
51	AN-LINK	NOT USE	-
52	N.C	N.C	-
53	GND	GND	-
54	N.C	N.C	-
55	N.C	N.C	-
56	GND	GND	-
57	N.C	N.C	-
58	OSD-TTX-R	ON SCREEN DISPLAY RED	168[mV]
59	GND	GND	-
60	OSD-TTX-G	ON SCREEN DISPLAY GREEN	0.46[V]
61	WP	WRITE PROTECT	-
62	OSD-TTX-B	ON SCREEN DISPLAY BLUE	0.46[V]
63	3.3[V]	3.3[V]	3.26[V]
64	OSD-TTX-FB	OSD/TTX-FB	7.31[mV]

1-9-4 PROSCAN MODULE Pins

PIN NO.	ITEM	FUNCTION	OUT VOLT
1	EW	EAST WEST OUT	2.26[V]
2	V-BLK	VERTICAL BLANK	-12.07[mV]
3	ABL	ABL(Automatic Brightness Limiter)	2.26[V]
4	VD-	VERTICAL DRIVE(-VOLTAGE)	3.46[V]
5	VD+	VERTICAL DRIVE(+VOLTAGE)	3.53[V]
6	H-BLK	HORIZONTAL BLANK	215.93[mV]
7	HD	HORIZONTAL DRIVE	2.38[V]
8	GND	GND	-
9	OSD/TTX-FB	OSD/TTX-FB	7.29[mV]
10	OSD/TTX-B	ON SCREEN DISPLAY BLUE IN	0.46[mV]
11	OSD/TTX-G	ON SCREEN DISPLAY GREEN IN	0.46[mV]
12	OSD/TTX-R	ON SCREEN DISPLAY RED IN	167.99[mV]
13	V-RESET	VIDEO RESET	2.94[mV]
14	GND	GND	-
15	SCL1	SERIAL CLOCK LINE	3.42[V]
16	SDA1	SERIAL DATA LINE	3.50[V]
17	N.C	N.C	-
18	COMP	COMP	27.28[mV]
19	GND	GND	-
20	CG-R	CONVERGENCE RED	0.27[mV]
21	CG-G	CONVERGENCE GREEN	0.27[mV]
22	CG-B	CONVERGENCE BLUE	0.29[mV]
23	CG-SYNC	CONVERGENCE SYNC	180.03[mV]
24	D/F	DYNAMIC FOCUS	1.5[V]
25	GND	GND	-
26	9[V]	9[V]	9[V]
27	N.C	N.C	-
28	N.C	N.C	-
29	N.C	N.C	-
30	N.C	N.C	-
31	GND	GND	-
32	13.5[V]	13.5[V]	14.05[V]

PIN NO.	ITEM	FUNCTION	OUT VOLT
33	5[V]-DW1	5[V]-DW1	4.97[V]
34	VM-Y	VM-Y OUTPUT	1.97[V]
35	SW3	SW3(CONTROL)	4.98[mV]
36	SW2	SW2(CONTROL)	2.08[V]
37	N.C	N.C	-
38	GND	GND	-
39	PIP-C	PIP-C INPUT	1.20[mV]
40	PIP-Y CVBS	PIP-Y/CVBS INPUT	1.33[mV]
41	GND	GND	-
42	MAIN-C	MAIN-C INPUT	1.34[mV]
43	MAIN-Y CVBS	MAIN-Y/CVBS INPUT	1.57[mV]
44	N.C	N.C	-
45	GND	GND	-
46	N.C	N.C	-
47	GND	GND	-
48	RF2-CVBS	RF2-CVBS	-
49	DVD-Pr/R	DVD-Pr/R(SCART)	-
50	DVD-Y/G	DVD-Y/G(SCART)	-
51	DVD-Pb/B	DVD-Pb/B(SCART)	-
52	FB	FB(SCART)	-
53	GND	GND	-
54	N.C	N.C	-
55	N.C	N.C	-
56	N.C	N.C	-
57	GND	GND	-
58	DVD-Pr	DVD-Pr	-
59	DVD-Y	DVD-Y	-
60	DVD-Pb	DVD-Pb	-
61	GND	GND	-
62	5[V]-DW2	5[V]-DW2	4.89[V]
63	N.C	N.C	-
64	N.C	N.C	-

1-9-5 CONVERGENCE MODULE Pins

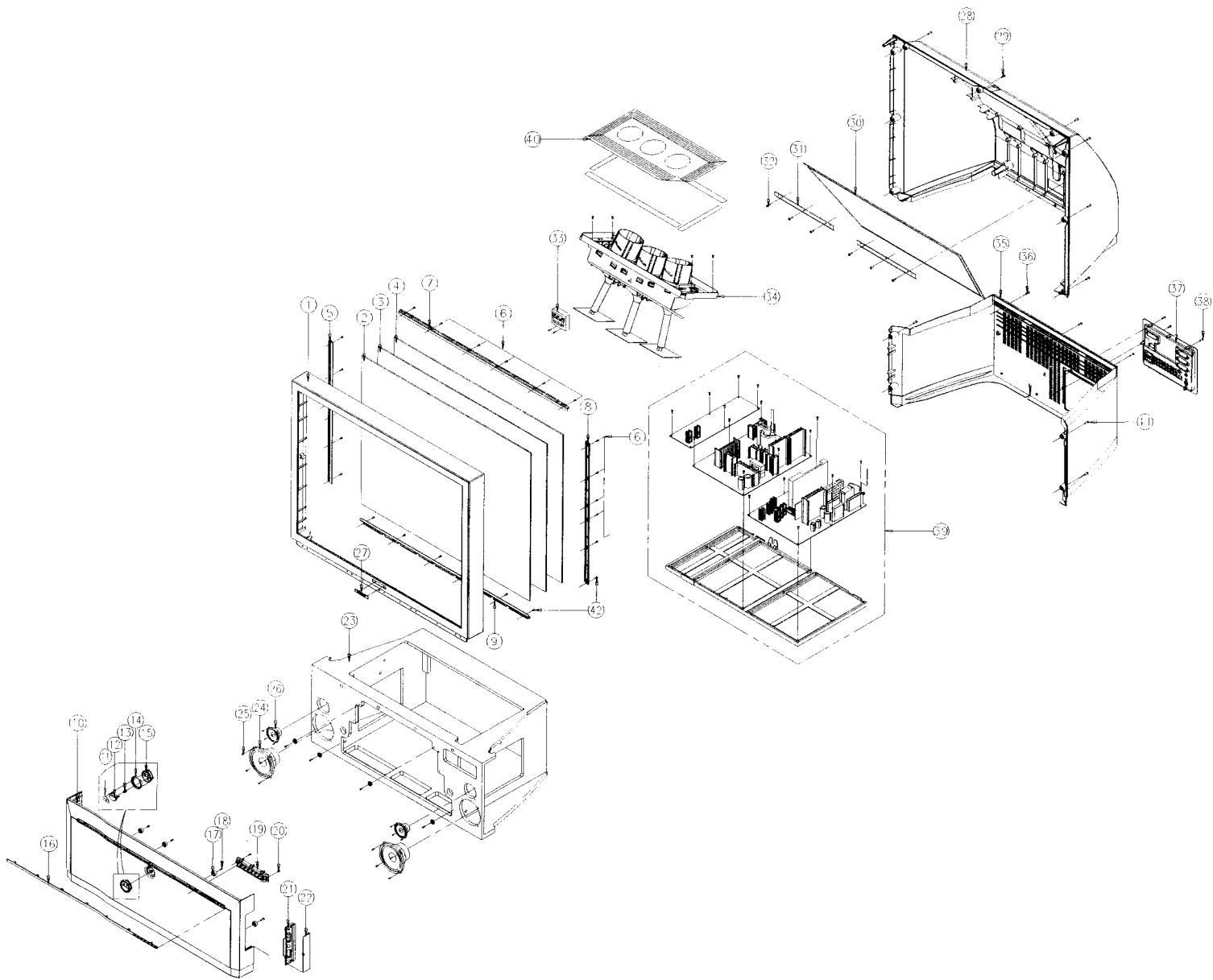
PIN NO.	ITEM	FUNCTION	OUT VOLT
1	5[V]-CG	5[V]-CG	5.2[V]
2	GND	GND	-
3	D/F	DYNAMIC FOCUS	1.5[V]
4	GND	GND	-
5	SCL1	SERIAL CLOCK LINE1	3.4[V]
6	CG-SYNC	CONVERGENCE SYNC	179[mV]
7	GND	GND	-
8	N.C	N.C	5.2[V]
9	CG-R	CONVERGENCE RED	0.27[mV]
10	CG-G	CONVERGENCE GREEN	0.26[mV]
11	CG-B	CONVERGENCE BLUE	0.29[mV]
12	SDA1	SERIAL DATA LINE1	3.5[V]
13	N.C	N.C	-
14	IR	INPUT REMOCON	3.7[V]
15	N.C	N.C	-
16	GND	GND	-
17	GND	GND	-
18	GND	GND	-
19	BV	BLUE VERTICAL OUT	34.27[mV]
20	BH	BLUE HORIZONTAL OUT	-107.32[mV]
21	GV	GREEN VERTICAL OUT	101.52[mV]
22	GH	GREEN HORIZONTAL OUT	-15.83[mV]
23	RV	RED VERTICAL OUT	104.32[mV]
24	RH	RED HORIZONTAL OUT	-88.95[mV]
25	GND	GND	-
26	H-BLK	HORIZONTAL BLANK	275[mV]
27	V-BLK	VERTICAL BLANK	-13.22[mV]
28	GND	GND	-
29	N.C	N.C	-
30	-5[V]	-5[V]	-4.99[V]
31	5[V]	5[V]	5.24[V]
32	GND	GND	-

MEMO

2. Exploded View & Parts List

2-1 SP43T7HF1

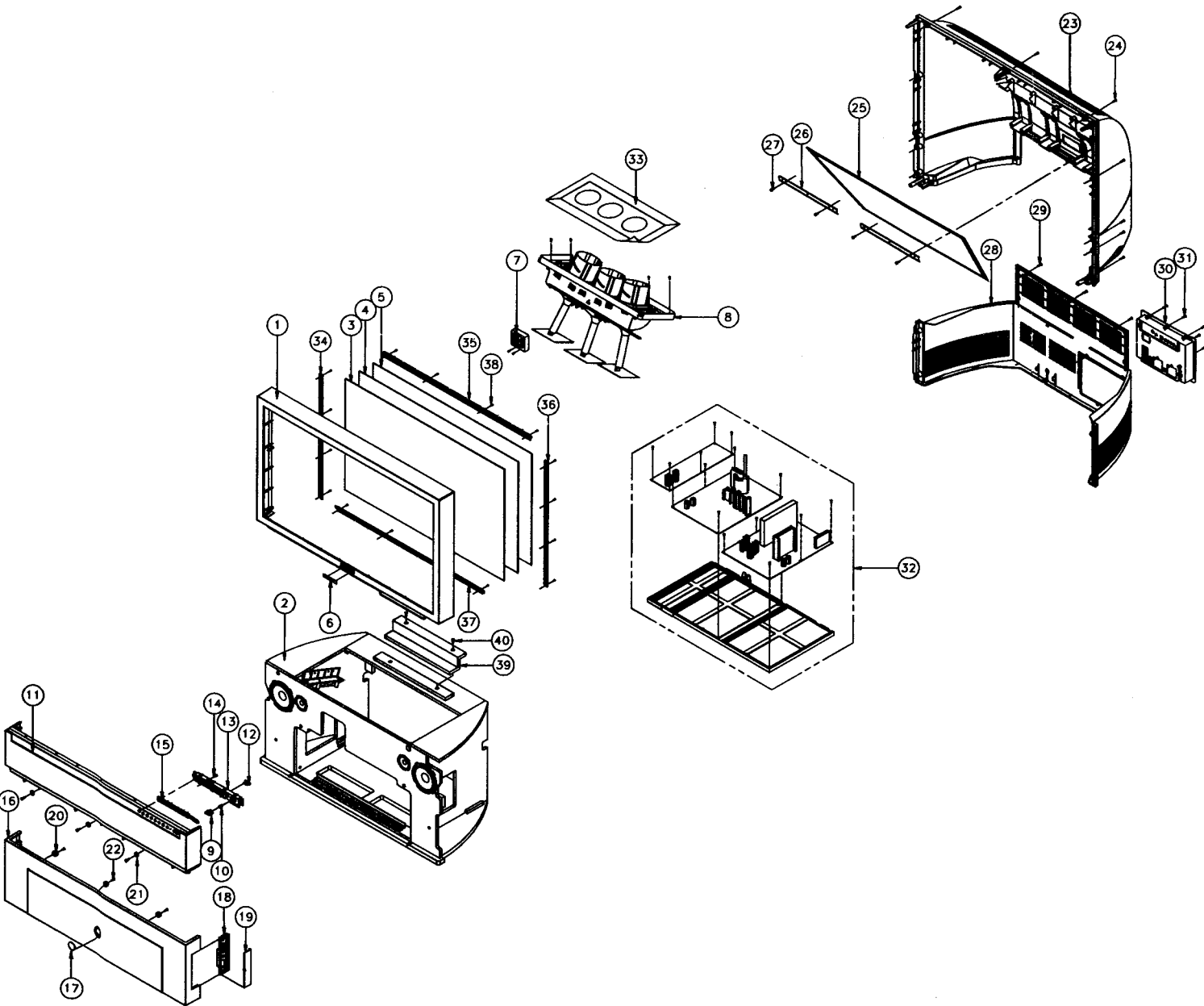
You can search for the updated part code through ITSELF web site.
URL : <http://itself.sec.samsung.co.kr>



No	Code No	Description	Specification	Q'ty	Remark	S.N.A
1		ASSY COVER P-CABINET,MASK;SP-43T7HF,HIPS		1		
2		SCREEN-FRESNEL;43N,-,T2,910*692,-,-,-,-		1		
4		SCREEN-TINT;43,908*690,P=0.52,DNP		1		
5		BRACKET-SCREEN,RIGHT-ASSY;43T7,SECC,T1.0		1		S.N.A
6		SCREW-SPECIAL;BH,+,-,M4,L12(11),ZPC(BLK)		20	BS+CFM	
7		BRACKET-SCREEN,TOP-ASSY;43T7,SECC,T1.0,S		1		S.N.A
8		BRACKET-SCREEN,LEFT-ASSY;43T7,SECC,T1.0,		1		S.N.A
9		BRACKET-SCREEN,BOT-ASSY;43T7,SECC,T1.0,S		1		S.N.A
10		ASSY COVER P-FRONT,BOT;43T7,HIPS HB,G766		1		
11		WINDOW-LED;43T7,PMMA,T3.0		1		S.N.A
12		KNOB-POWER;43T7,ABS,HB,G3676,CIS		1		
13		SPRING ETC-CS,-,SUS304,-,-,OD6,N7,OD6,-,		1		S.N.A
14		HOLDER-POWER,RMC;43T7,ABS HB,G3676,CR-CO		1		S.N.A
15		WINDOW-RMC;43T7,PC,CLR		1		S.N.A
16		COVER-DECORATION;43T7,ABS,HB,WHT,SVM6145		1		S.N.A
17		VELCRO-A;COMMANDO,BST1 1/4H		4		S.N.A
18		SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR		4	VC+CFB	S.N.A
19		KNOB-CONTROL;43T7,ABS,HB,G3676,SILVER		1		
20		SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR		2	KC+CFB	S.N.A
21		HOLDER-SIDE,A/V;43T7,ABS HB,G3676,SVM-11		1		S.N.A
22		DOOR-AV;43T7,ABS HB,G3676,SVM-1132		1		
23		ASSY COVER P-CABINET,WOOD;SVP-43T7HR,WOO		1		
24		SPEAKER;30W,80HM,91DB,20HZ		2		
25		SCREW-WOOD,-,SWRCH18A,M4,L16,PH,+,-,-,ZP		12	SPK+CW	S.N.A
26		SPEAKER;20W,80HM,95DB,1300HZ		2		
27		BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS		1		S.N.A
28		CABINET-BACK,TOP;43T7,HIPS,HB,G4309		1		
29		SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR		9	CBT+CF	S.N.A
30		MIRROR-BACK;43T7,SSM,795*569*554*(78)		1		
31		BRACKET-MIRROR,ASSY;42W5,SECC,T1.0,01123		2		
32		SCREW-TAPPING;TH,+ ,2,M4,L15,ZPC(BLK),SWR		6	BM+CBT	S.N.A
33		TRANS FBT-H/V DISTRIBUTOR;FWZ50A001E/FFA		1		
34		BRACKET-CRT,MAIN;54,SECC,T1.6,-,-,-,-		1		
35		CABINET-BACK,BOT;43T7,HIPS,HB,G4309		1		
36		SCREW-WOOD;HH,+ ,M4,L19,ZPC(BLK),SWRCH18A		3	CBB+CW	S.N.A
37		ASSY COVER P-TERMINAL,ANT;43T7HF,HIPS VO		1		
38		SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR		3	CBB+TB	S.N.A
39		ASSY CHASSIS;SP43T7HFX/SAP,J54A		1	*	S.N.A
40		SPACER-COVER,DUST;43T7,SPONGE 94HF-1,T3.		1		S.N.A
41		SCREW-TAPTITE;RH,+ ,B,M4,L15,ZPC(BLK),SWR		4	CBBCFB	S.N.A
42		SCREW-TAPTITE,-,SWRCH18A,M4,L12,HH,+ ,PC,		4	BS+CFM	S.N.A

2-2 SP42W5HF

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No	Code No	Description	Specification	Q'ty	Remark	S.N.A
1		ASSY-FRONT,MASK,;HIPS HB,G4309,SVM1132,4		1		
2		ASSY-CABINET,WOOD,;WOOD,EUP,42W5		1		S.N.A
3		SCREEN-FILTER;T=82%,960*552*2,G=110,AG		1		
4		SCREEN-TINT;42W,958*550,T=0.7,P=052		1		
5		SCREEN-FRESNEL;42W,960*552,T=2.0		1		
6		BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS		1		
7		MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-		1		
8		ASSY PRT;SP42W5HFX/XEO,J52A		1		S.N.A
9		KNOB-POWER;42W5,ABS,HB,G3676,COT		1		
10		SPRING ETC-CS;-SUS304,-,-,OD6,N7,OD6,-,		1		S.N.A
11		CABINET-PANEL,CONTROL;42W5,HIPS,HB,G4309		1		S.N.A
12		WINDOW-RMC,LED;42W5,PC,CLR		1		S.N.A
13		KNOB-CONTROL;42W5,ABS,HB,G3676,COT		1		
14		SCREW-TAPTITE,RH,+,B,M4,L12,ZPC(BLK),SWR		4	KC+CPC	S.N.A
15		GUIDE-KNOB,CONTROL;42W5,ABS HB,G3676,SVM		1		S.N.A
16		CABINET-FRONT,BOT;42W5,HIPS,HB,G4309,SVM		1		
17		BADGE-DECORATION;42W5,AL,NI,RS		1		
18		HOLDER-SIDE,A/V;42W5,ABS HB,G3676,SV-704		1		S.N.A
19		DOOR-AV;42W5,ABS HB,G3676,SV-704P		1		
20		VELCRO-A;COMMANDO,BST1 1/4H		3		S.N.A
20		VELCRO-A;COMMANDO,BST1 1/4H		1		S.N.A
21		VELCRO-B;COMMANDO,BST1 1/4H		1		S.N.A
21		VELCRO-B;COMMANDO,BST1 1/4H		3		S.N.A
22		SCREW-TAPTITE,RH,+,B,M4,L12,ZPC(BLK),SWR		1	VC+CPC	S.N.A
24		SCREW-TAPTITE,RH,+,B,M4,L15,ZPC(BLK),SWR		7	CBT+CF	S.N.A
25		MIRROR-FRONT;42W5,FSM,870*633*446		1		S.N.A
26		BRACKET-MIRROR,ASSY;42W5,SECC,T1.0,01123		2		S.N.A
27		SCREW-TAPTITE,RH,+,B,M4,L15,ZPC(BLK),SWR		4	BM+CBT	S.N.A
28		CABINET-BACK,BOT;42W5,HIPS,HB,G4309		1		
29		SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A		3	HC+CW	S.N.A
30		ASSY COVER P-TERMINAL,ANT;42W5,HIPS VO,B		1		S.N.A
31		SCREW-TAPTITE,RH,+,B,M4,L15,ZPC(BLK),SWR		2	TB+RJK	S.N.A
32		ASSY CHASSIS;SP42W5HFX/XEO,J52A,		1		S.N.A
33		SPACER-COVER,DUST;43,54,62J9,SPONGE 94HF		1		S.N.A
34		BRACKET-SCREEN,ASSY(R);42W5,SECC,T1.0,NE		1		S.N.A
35		BRACKET-SCREEN,ASSY(TOP);42W5,SECC,T1.0,		1		S.N.A
36		BRACKET-SCREEN,ASSY(L);42W5,SECC,T1.0,NE		1		S.N.A
37		BRACKET-SCREEN,ASSY(BOT);42W5,SECC,T1.0,		1		S.N.A
38		SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+,PC,		20	BS+CF	S.N.A
39		INLAY-SUPPORT;42W5,PS SHEET,T0.5,94V0		1		S.N.A
40		SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A		2	IS+CW	S.N.A

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3. Electrical Parts List

3-1 SP43T7HF1X/BOB

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
1	BP91-00525A	ASSY CPT-R;SP43T7HPX/XEF,J54A		2	AA33-00018A	MAGNET CONVERGENCE;JH 92LT - 36F,-29.1M	
2	BP61-00079A	HOLDER-DY;P.JTV,T0.5,NYLON66 V2		2	AA27-00278A	DEFLECTION YOKE;-PT-S0712AC,S/S,PJTCRT(	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ		2	AA26-30006F	FLYBACK;*WIRE*-FWZ-50A001C,55,30KV	
2	AA63-00076A	SPACER-LENS;FELT,T1.0,GRAY,7CRT,PROJ,EC		2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK		2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,-		2	AA61-00847A	CASE-COUPLER,B;DP,PROJ,AA61-00808B	
2	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+,PC,		2	AA03-00202A	CRT MONO;P16LSG03BMB,-,7inch,-,-,-,FLAT	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		2	AA67-00156A	LENS;-DELTA 240,CLEAR,C-ELEMENT	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		2	AA67-10007A	LENS;-DELTA,77,CLEAR,S4388,-	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		2	AA67-00190A	LENS;DELTA71,CLEAR C-ELEMENT	
2	AA39-00018A	LEAD CONNECTOR-ASSY;UL1015#22,UL/CSA,1P		2	AA67-00147A	LENS-ASSY;DELTA 78,CLEAR A/B	
2	AA33-00016A	MAGNET CONVERGENCE;JH 92LT - 29F,-29.1M					
2	AA27-00278A	DEFLECTION YOKE;-PT-S0712AC,S/S,PJTCRT(					
2	AA26-30006F	FLYBACK;*WIRE*-FWZ-50A001C,55,30KV		1	BP91-00245M	ASSY CHASSIS;SP43T7HFS,J54A,C2.0	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP,PC1545R,P54A,AA95	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		1	BP94-00239A	ASSY PCB MISC-DY-JACK;DP,HCM4215W3S/XAA,	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0		1	BP94-00328A	ASSY PCB MISC-CONTROL POWER;DP,SP43T7HPS	
2	AA61-00845A	CASE-COUPLER,R;DP,PROJ,AA61-00806B		1	BP94-00238A	ASSY PCB MISC-VM;DP,HCM4215W3S/XAA,P55A	
2	AA03-00200A	CRT MONO;P16LSG03RJA,-,7inch,-,-,-,FLAT		1	BP94-00353A	ASSY PCB MISC-A/V FRONT;DP,SP43T7HPS/XE	
2	AA67-00157A	LENS;-DELTA 240,RED,C-ELEMENT		1	BP94-00382A	ASSY PCB MISC-SUB AMP;DP,SP43T7HFS,J54A,	
2	AA67-10008A	LENS;-DELTA,77,RED,S4388,-		1	BP94-00383A	ASSY PCB MISC-CG-AMP;DP,SP43T7HFS,J54A,C	
2	AA67-00188A	LENS;DELTA71,RED C-ELEMENT		1	BP94-00442B	ASSY PCB MISC-SPK TERMINAL;DP,BP96-0003	
2	AA67-00147A	LENS-ASSY;DELTA 78,CLEAR A/B		1	BP94-00329A	ASSY PCB MISC-CONTROL SIDE;DP,SP43T7HPS/	
1	BP91-00526A	ASSY CPT-G;SP43T7HPX/XEF,J54A		1	BP94-00257A	ASSY PCB CRT-PCB;DP,SP42W5HFS/XEF,J54A	
2	BP61-00079A	HOLDER-DY;P.JTV,T0.5,NYLON66 V2		2	AA59-00171A	MODULE-FOCUS;PACK;SVP-5200,S300-P3,-,-,-	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ		2	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
2	AA63-00076A	SPACER-LENS;FELT,T1.0,GRAY,7CRT,PROJ,EC		1	AA40-00051A	TUNER;TCPW3001PC18B(S),TCPW3001PC18B(S),	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		1	AA40-00050A	TUNER;TCLW3101PD18A(S),TCLW3101PD18A(S),	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK		1	AA96-20130A	ASSY-POWER,CORD;-CP2/NO(4.0R),H/C150,KJ	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,-		1	AA39-30007A	IF-CABLE;-T,100mm,1365#26	
2	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+,PC,		1	AA39-00006A	CABLE-RCA;-RCA,3000MM,0.12/10,RED/WHT/Y	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY					
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		1	BP98-00244A	ASSY K/D-CABINET,WOOD;43T7,AA64-02731C,	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		2	AA60-10051A	SCREW-WOOD;-SWRCH18A,M4,L16,PH,+,+,ZP	
2	AA39-00018A	LEAD CONNECTOR-ASSY;UL1015#22,UL/CSA,1P		2	AA60-10051B	SCREW-WOOD;-SWRCH18A,M3.5,L11,RH,+,+,	
2	AA27-00278A	DEFLECTION YOKE;-PT-S0712AC,S/S,PJTCRT(		2	AA61-00094C	HOLDER-RAIL;PC,J533R,ABS,-,-,-,BLK,HB,480	
2	AA26-30006F	FLYBACK;*WIRE*-FWZ-50A001C,55,30KV		2	AA61-00097A	HOLDER-WIRE;-NYLON 6/6,-,-,-,NTR,-	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		2	AA61-00508D	HOLDER-JERSEY;W3,ABS V0,GRAY,G4309	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		2	AA61-00533B	BRACKET-GRILLE;43,54,62J8,SECC-1,T0.5,-	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0		2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,-,-,-,AA61-005	
2	AA61-00846A	CASE COUPLER G;DP,PROJ,AA61-00807B		2	AA61-00864A	HOLDER-PCB;W3,HIPS,V0,BLK	
2	AA03-00201A	CRT MONO;P16LSG03HKA,-,7inch,-,-,-,FLAT		2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA67-00158A	LENS;-DELTA 240,GREEN,C-ELEMENT		2	AA61-01213A	BRACKET-GRILLE;43T7,SECC,T0.5	
2	AA67-10071A	LENS;DELTA 77 79,-,GREEN,C-ELEMENT,		2	AA61-10247A	BRACKET-FOCUS;S46DS,SECC,T1.0,-,-,-,-	
2	AA67-00189A	LENS;DELTA71,GREEN C-ELEMENT		2	AA64-02731C	CABINET-WOOD;43T7,WOOD,SDE8336R XGA	
2	AA67-00147A	LENS-ASSY;DELTA 78,CLEAR A/B		2	AA65-00014B	CLAMPER CORE-WIRE;GPM-51A,PP,HB,-,BLK,-	
1	BP91-00527A	ASSY CPT-B;SP43T7HPX/XEF,J54A		2	BP61-00019A	HOLDER-PALLET;42W5,HIPS,HB,BLK	
2	BP61-00079A	HOLDER-DY;P.JTV,T0.5,NYLON66 V2		2	3001-001353	SPEAKER;25W,80HM,90DB+/-3DB,60HZ+/-12HZ	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ		2	3001-001107	SPEAKER;20W,80hm,95dB,1300Hz	
2	AA63-00076A	SPACER-LENS;FELT,T1.0,GRAY,7CRT,PROJ,EC		2	AA39-00086A	LEAD CONNECTOR-ASSY;2.2UF,REC,REC,200MM	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	AA98-00049A	ASSY-LEAD,CON;-LEAD-CON,CORE,AA39-20505	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK		3	3301-001201	CORE-FERRITE;AE,21x11x32mm,1500,280G	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,-		2	AA61-00617B	BRACKET-CRT,MAIN;DP,54J7,AA61-00475B	
2	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+,PC,		2	6006-001094	SCREW-ASS'Y WOOD;WW,HH,+,M7,L32,ZPC(YEL)	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK					
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		1	BP96-00016H	ASSY COVER P-CABINET MASK;DP,43T7,AA64-02	
2	AA39-00018A	LEAD CONNECTOR-ASSY;UL1015#22,UL/CSA,1P		2	AA64-02733E	CABINET-FRONT,MASK TOP;43T7HF,HIPS,HB,G4	

Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
1	BP64-00017B	CABINET-BACK,BOT;DP;43T7,AA64-02735B					
1	BP64-00016A	CABINET-BACK.TOP;DP;43T7,AA64-02734A					
1	BP64-00015B	CABINET-FRONT,BOT;DP;43T7 EUR,AA64-02732					
1	AA67-00195A	SCREEN-TINT;43.908*690,T=0.73,P=0.52					
1	AA67-00115B	SCREEN-FRESNEL;43N.-,T2,910*692,-,-,-					
1	AA67-00129A	SUN SCREEN-AG;43J8,T=82%,910*692*2,G=110					
1	BP61-00016A	BRACKET-SCREEN,TB;DP;43T7,AA61-01124A					
1	BP61-00017A	BRACKET-SCREEN,RL;DP;43T7,AA61-01125A					
1	BP61-00012A	BRACKET-MIRROR;DP;42W5,AA61-01123A,11.8K					
1	AA60-00072C	SPACER COVER,DUST;43T7,SPONGE 94HF-1,T3.					
1	AA63-60122J	SPACER-FELT;SPD-50P3H,FELT,L530,D20,T0.3					
1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHT,RUBBER					
1	AA67-00205D	MIRROR-BACK;DP;43T7,SSM.795*569*554*(78)					
1	AA26-00101A	TRANS FBT;FWZ50A001E/FFA97513B,12KV,5P,-					
1	BP39-00009A	LEAD CONNECTOR ASSY;P54A/SVP-42W5,UL2547					
1	BP39-00036A	LEAD CONNECTOR;J54A/SP42W5HP,UL2547#26,U					
1	BP39-00048A	LEAD CONNECTOR;P55A/SVP-47W3HRT,UL1617#2					
1	AA61-00049B	HOLDER-BOX;-.PP,-,-,NTR,V0,AA61-20285A					
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET					
1	BP61-00052A	HOLDER-WIRE;PJTV,NYLON,66,NATURAL					
1	AA64-60449B	INLAY COVER;SP-434JMF,PS,T0.5,149.3X69.5					
1	BP64-00044A	INLAY-VENT;43T7,PS SHEET,T0.5					
1	AA65-30018A	CLAMP WIRE;DONG-A,NYLON-66,-,-,-,DATL-60					
1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,					
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66					
1	AA65-30008A	CLAMP-CORD;-.PE,HB,-,BLK,-					
1	AA65-30013A	CLAMP-WIRE;-.NYLON-6					
1	AA65-30111A	CLAMP-WIRE;ALL MODEL,NYLON,V0,-,WHT,1T 1					
1	AA63-10002A	BAND-TIE;-.NYLON66 V2,-,-,L100,NTR,-					
1	AA63-10007B	BAND-PP;W18,CLEA					
1	AA63-10002A	BAND-TIE;-.NYLON66 V2,-,-,L100,NTR,-					
1	6003-001023	SCREW-TAPTITE;RWH,+.B,M3,L10,ZPC(YEL),SW					
1	6003-001026	SCREW-TAPTITE;RH,+.B,M4,L15,ZPC(BLK)					
1	AA60-10011A	SCREW-TAPTITE;-.SWRCH18A,M4,L12,HH,+.PC,					
1	6005-001003	SCREW-WOOD;HH,+.M4,L19,ZPC(BLK),SWRCH18A					
1	6005-001004	SCREW-WOOD;HH,+.M4,L27,BLK,SWRCH18A					
1	6009-001296	SCREW-SPECIAL;BH,+.M4,L12(11),ZPC(BLK)					
1	6002-000522	SCREW-TAPPING;TH,+.2,M4,L15,ZPC(BLK),SWR					
1	BP69-00020A	PACKING CASE-OUT;43T7,H-3 YEL,C3,1045.63					
1	BP69-00021A	PACKING COVER,BOT;43T7,H-3 AB,C3,YEL,965					
1	AA69-01652A	CUSHION-SET;43T7,PS FOAMED,C=0.02					
1	BP59-00008A	REMOCON;TM65A,COMMOANDO,J54A,49,L/GRAY,					
1	BP68-00092A	MANUAL USERS;SP43T7HF,BG,W/P100G,J54A,B5					
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJ080G,SPA,A					
1	AA68-50509A	LABEL-BOX;A/P 90(G),ALL MODEL,-,WHT,L250					
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM					
1	AA68-00340A	LABEL-WARRANTY;-.WHT,75MM,20					
1	AA68-00344A	LABEL-TRANSFER BOX;-.TF-53B					
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI					
1	AA68-00345A	LABEL-TRANSFER WARRANTY;-.TF-53B5D					
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,					
1	AA68-01070A	LABEL-MODEL;-.A/P,-,30.20,-,-,-,ALL MODE					
1	AA68-50523A	LABEL-BACK,DOLBY;A/P 100(G),CW764AHD,DOL					
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK					
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK					
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5					
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE					
1	AA69-00862A	BAG PE;-.HDPE PE FOAM,T0.03,W400,H240					
1	AA69-00744L	BAG-SHEET;-.HDPE PE FOAM,T0.015,W1650,H11					
1	4301-000120	BATTERY-MN;1.5V,-,AA,14.5x50mm,-					
1	AA63-70002B	SHEET;PE-FOAM,T1.0,50G					

You can search for the updated part code through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr>

3-2 SP43T7HF1X/EUE

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
1	BP91-00525A	ASSY CPT-R;SP43T7HPX/XEF,J54A		2	AA03-00202A	CRT MONO;P16LSG03BMB,7inch,FLAT	
2	BP61-00079A	HOLDER-DY;PJT.V,T0.5,NYLON66 V2		2	AA67-00156A	LENS;DELTA 240,CLEAR,C-ELEMENT	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ		2	AA67-10007A	LENS;DELTA 77,CLEAR,S4388,-	
2	AA63-00076A	SPACER-LENS;FELT,T1.0,GRAY,7CRT,PROJEC		2	AA67-00190A	LENS;DELTA71,CLEAR C ELEMENT	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	AA67-00147A	LENS-ASSY;DELTA 78,CLEAR A/B	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK					
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,SWRCH18A,M4,L12,HH,PC,		1	BP91-00245M	ASSY CHASSIS;SP43T7HFS,J54A,C2.0	
2	AA60-10011A	SCREW-TAPTITE;SWRCH18A,M4,L12,HH,PC,		1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP;PCL545R,P54A,AA95	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		1	BP94-00239A	ASSY PCB MISC-DY-JACK;DP;HCM4215W3S/XAA,	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		1	BP94-00328A	ASSY PCB MISC-CONTROL POWER;DP;SP43T7HPS	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		1	BP94-00238A	ASSY PCB MISC-VM;DP;HCM4215W3S/XAA,P55A	
2	AA39-00018A	LEAD CONNECTOR ASSY;UL1015#22,UL/CSA,1P		1	BP94-00353A	ASSY PCB MISC-A/V FRONT;DP,SP43T7HPS/XE	
2	AA33-00016A	MAGNET CONVERGENCE;JH 92LT-29F,29.1M		1	BP94-00382A	ASSY PCB MISC-SUB AMP;DP;SP43T7HFS,J54A,	
2	AA27-00278A	DEFLECTION YOKE;PT-S0712AC,S/S,PJTCRT(		1	BP94-00383A	ASSY PCB MISC-CG-AMP;DP;SP43T7HFS,J54A,C	
2	AA26-30006F	FLYBACK;*WIRE*;FWZ-50A001C,55.30KV		1	BP94-00442B	ASSY PCB MISC-SPK TERMINAL;DP, BP96-0003	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		1	BP94-00329A	ASSY PCB MISC-CONTROL SIDE;DP;SP43T7HPS/	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH					
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0		1	BP94-00257A	ASSY PCB CRT-PCB;DP;SP42W5HFS/XEF,J54A	
2	AA61-00845A	CASE-COUPLER,R;DPPROJ,AA61-00806B		2	AA59-00171A	MODULE-FOCUS,PACK;SVP-5200,S300-P3,-	
2	AA03-00200A	CRT MONO;P16LSG03RJA,7inch,FLAT		2	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
2	AA67-00157A	LENS;DELTA 240,RED,C-ELEMENT		1	AA40-00051A	TUNER;TCPW3001PC18B(S),TCPW3001PC18B(S),	
2	AA67-10008A	LENS;DELTA 77,RED,S4388,-		1	AA40-00050A	TUNER;TCLW3101PD18A(S),TCLW3101PD18A(S),	
2	AA67-00188A	LENS;DELTA71,RED C ELEMENT		1	AA96-20130A	ASSY-POWER,CORD;-CP2/NO(4.0R),H/C150,KJ	
2	AA67-00147A	LENS-ASSY;DELTA 78,CLEAR A/B		1	AA39-30007A	IF-CABLE;-T,100mm,1365#26	
1	BP91-00526A	ASSY CPT-G;SP43T7HPX/XEF,J54A		1	AA39-00006A	CABLE-RCA;-RCA,3000MM,0.12/10,RED/WHT/Y	
2	BP61-00079A	HOLDER-DY;PJT.V,T0.5,NYLON66 V2					
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ		1	BP98-00244A	ASSY K/D-CABINET,WOOD;43T7,AA64-02731C,	
2	AA63-00076A	SPACER-LENS;FELT,T1.0,GRAY,7CRT,PROJEC		2	AA60-10051A	SCREW-WOOD;SWRCH18A,M4,L16,PH,PC,ZP	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	AA60-10051B	SCREW-WOOD;SWRCH18A,M3.5,L11,RH,PC,	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK		2	AA61-00094C	HOLDER-RAIL;PCJ533R,ABS,BLK,HB,480	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,SWRCH18A,M4,L12,HH,PC,		2	AA61-00097A	HOLDER-WIRE;-NYLON 6/6,NTR-	
2	AA60-10011A	SCREW-TAPTITE;SWRCH18A,M4,L12,HH,PC,		2	AA61-00508D	HOLDER-JERSEY;W3,ABS V0,GRAY,G4309	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		2	AA61-00533B	BRACKET-GRILLE;43.54,62J8,SECC,T1.0,5-	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,AA61-005	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		2	AA61-00864A	HOLDER-PCB;W3,HPS,V0,BLK	
2	AA39-00018A	LEAD CONNECTOR ASSY;UL1015#22,UL/CSA,1P		2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA27-00278A	DEFLECTION YOKE;PT-S0712AC,S/S,PJTCRT(		2	AA61-01213A	BRACKET-GRILLE;43T7,SECC,T0.5	
2	AA26-30006F	FLYBACK;*WIRE*;FWZ-50A001C,55.30KV		2	AA61-10247A	BRACKET-FOCUS;S46DS,SECC,T1.0,SWRCH18A,M4,L12,HH,PC,	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		2	AA64-02731C	CABINET-WOOD;43T7,WOOD,SDE8336R XGA	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		2	AA65-00014B	CLAMPER CORE WIRE;GPM-51A,PP,HB,-BLK,-	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0		2	BP61-00019A	HOLDER-PALLET;42W5,HPS,HB,BLK	
2	AA61-00846A	CASE COUPLER G;DPPROJ,AA61-00807B		2	3001-001353	SPEAKER;25W,80HM,90DB+/-3DB,60HZ+/-12HZ	
2	AA03-00201A	CRT MONO;P16LSG03HKA,7inch,FLAT		2	3001-001107	SPEAKER;20W,80hm,95dB,1300Hz	
2	AA67-00158A	LENS;DELTA 240,GREEN,C-ELEMENT		2	AA39-00086A	LEAD CONNECTOR ASSY;2.2UF,REC,REC,200MM	
2	AA67-10071A	LENS;DELTA 77 79,-GREEN,C-ELEMENT,		2	AA98-00049A	ASSY-LEAD,CON;-LEAD-CON,CORE,AA39-20505	
2	AA67-00189A	LENS;DELTA71,GREEN C ELEMENT		3	3301-001201	CORE-FERRITE;AE,21x1x32mm,1500,280G	
2	AA67-00147A	LENS-ASSY;DELTA 78,CLEAR A/B		2	AA61-00617B	BRACKET-CRT,MAIN;DP,54J7,AA61-00475B	
1	BP91-00527A	ASSY CPT-B;SP43T7HPX/XEF,J54A		2	6006-001094	SCREW-ASSY WOOD;WW,HH,M7,L32,ZPC(YEL)	
2	BP61-00079A	HOLDER-DY;PJT.V,T0.5,NYLON66 V2		2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
2	AA91-00735B	ASSY-BRKT,CRT;DP,AA91-00722A,PROJ		1	BP96-00016H	ASSY COVER P-CABINET MASK;DP,43T7,AA64-02	
2	AA63-00076A	SPACER-LENS;FELT,T1.0,GRAY,7CRT,PROJEC		2	AA64-02733E	CABINET-FRONT,MASK TOP;43T7HF,HPS,HB,G4	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR					
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK		1	BP64-00017B	CABINET-BACK,BOT;DP,43T7,AA64-02735B	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,SWRCH18A,M4,L12,HH,PC,		1	BP64-00016A	CABINET-BACK,TOP;DP,43T7,AA64-02734A	
2	AA60-10011A	SCREW-TAPTITE;SWRCH18A,M4,L12,HH,PC,		1	BP64-00015B	CABINET-FRONT,BOT;DP,43T7,EUR,AA64-02732	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		1	AA67-00195A	SCREEN-TINT;43.908*690,T=0.73,P=0.52	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		1	AA67-00115B	SCREEN-FRESNEL;43N,T2,910*692,SWRCH18A,M4,L12,HH,PC,	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		1	AA67-00129A	SUN SCREEN-AG;43J8,T=82%,910*692*2,G=110	
2	AA39-00018A	LEAD CONNECTOR ASSY;UL1015#22,UL/CSA,1P		1	BP61-00016A	BRACKET-SCREEN,TB;DP,43T7,AA61-01124A	
2	AA33-00018A	MAGNET CONVERGENCE;JH 92LT-36F,29.1M		1	BP61-00017A	BRACKET-SCREEN,RL;DP,43T7,AA61-01125A	
2	AA27-00278A	DEFLECTION YOKE;PT-S0712AC,S/S,PJTCRT(		1	BP61-00012A	BRACKET-MIRROR;DP,42W5,AA61-01123A,11.8K	
2	AA26-30006F	FLYBACK;*WIRE*;FWZ-50A001C,55.30KV		1	AA60-00072C	SPACER-COVER,DUST;43T7,SPONGE 94HF-1,T3,	
2	0204-001148	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		1	AA63-60122J	SPACER-FELT;SPD-50P3H,FELT,L530,D20,T0.3	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHIT,RUBBER	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0					
2	AA61-00847A	CASE-COUPLER,B;DPPROJ,AA61-00808B					

Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
1	AA67-00205D	MIRROR-BACK;DP;43T7,SSM,795*569*554*(78)					
1	AA26-00101A	TRANS.FBT;FWZ50A001E/FFA97513B,12KV,5P;-					
1	BP39-00009A	LEAD CONNECTOR ASSY;P54A/SVP-42W5,UL2547					
1	BP39-00036A	LEAD CONNECTOR;J54A/SP42W5HP,UL2547#26,U					
1	BP39-00048A	LEAD CONNECTOR;P55A/SVP-47W3HRT,UL1617#2					
1	AA61-00049B	HOLDER-BOX;-PP,-,-,NTR,V0,AA61-20285A					
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET					
1	BP61-00052A	HOLDER-WIRE;PJT,V,NYLON,66,NATURAL					
1	AA64-60449B	INLAY-COVER;SP-434JMF,PS,T0.5,149.3X69.5					
1	BP64-00044A	INLAY-VENT;43T7,PS SHEET,T0.5					
1	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,DATL-60					
1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,					
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66					
1	AA65-30008A	CLAMP-CORD;-PE,HB,-,BLK,-					
1	AA65-30013A	CLAMP-WIRE;-NYLON-6					
1	AA65-30111A	CLAMP-WIRE;ALL MODEL,NYLON,V0,-,WHT,1T 1					
1	AA63-10002A	BAND-TIE;-NYLON66 V2,-,-,L100,NTR,-					
1	AA63-10007B	BAND-PP;W18,CLEA					
1	AA63-10002A	BAND-TIE;-NYLON66 V2,-,-,L100,NTR,-					
1	6003-001023	SCREW-TAPTITE;RWH,+,B,M3,L10,ZPC(YEL),SW					
1	6003-001026	SCREW-TAPTITE;RH,+,B,M4,L15,ZPC(BLK)					
1	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+,PC,					
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A					
1	6005-001004	SCREW-WOOD;HH,+,M4,L27,BLK,SWRCH18A					
1	6009-001296	SCREW-SPECIAL;BH,+,+,M4,L12(11),ZPC(BLK)					
1	6002-000522	SCREW-TAPPING;TH,+,2,M4,L15,ZPC(BLK),SWR					
1	BP69-00020A	PACKING CASE-OUT;43T7,H-3 YEL,C3,1045,63					
1	BP69-00021A	PACKING-COVER,BOT;43T7,H-3 AB,C3,YEL,965					
1	AA69-01652A	CUSHION-SET;43T7,PS FOAMED,C=0.02					
1	BP59-00008A	REMOCON;-TM65A,COMMOANDO,J54A,49,L/GRAY,					
1	BP68-00099A	MANUAL USERS;SP43T7HF,GE,W/100G,J54A,B5,					
1	AA68-50509A	LABEL-BOX;A/P 90(G),ALL MODEL;-WHT,L250					
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM					
1	AA68-00340A	LABEL-WARRANTY;-,-,WHT,75MM,20					
1	AA68-00344A	LABEL-TRANSFER BOX;-TF-53B					
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI					
1	AA68-00345A	LABEL-TRANSFER WARRANTY;-TF-53B5D					
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,					
1	AA68-01070A	LABEL-MODEL;-A/P,-,30,20,-,-,ALL MODE					
1	AA68-50523A	LABEL-BACK,DOLBY;A/P 100(G),CW764AHD,DOL					
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJO80G,SPA,A					
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK					
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK					
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5					
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE					
1	AA69-00862A	BAG PE;-HDPE PE FOAM,T0.03,W400,H240					
1	AA69-00744L	BAG-SHEET;-HDPE PE FOAM,T0.015,W1650,H1					
1	4301-000120	BATTERY-MN;1.5V,-,AA,14.5x50mm,-					
1	AA63-70002B	SHEET;-PE-FOAM,T1.0,50G					

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3-3 SP42W5HFX/XEU

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
1	AA91-04077A	ASSY CPT-R; P16LSG03RJA, 42, VENUS, D7		1	AA39-30007B	IF-CABLE; -, T, 150mm, 1365#26	
1	AA91-04078A	ASSY CPT-G; P16LSG03HKA, 42, VENUS, D7		1	AA67-00204C	MIRROR-FRONT; DP, 42W5, FSM, 870*633*446	
1	AA91-04079A	ASSY CPT-B; P16LSG03BMB, 42, VENUS, D7		1	BP61-00012A	BRACKET-MIRROR; DP, 42W5, AA61-01123A, 11.8K	
1	AA91-04093A	ASSY CHASSIS; SP42W5HFX/XEF, J52A		1	BP61-00010A	BRACKET-SCREEN, TB; DP, 42W5, AA61-01121A, 26	
1	AA94-08401A	ASSY PCB CRT; SP42W5HFX/XEF, J52A, DP		1	BP61-00011A	BRACKET-SCREEN, RL; DP, 42W5, AA61-01122A, 13	
1	AA94-08448A	ASSY PCB MISC-A/V FRONT; SP42W5HFS/XEF, J5		1	AA67-00193A	SCREEN-TINT; 42W, 958*550, T=0.73, P=052	
1	AA94-08457A	ASSY PCB MISC-A/V TERMINAL; SP42W5HFS/XEF		1	AA67-00193B	SCREEN-FRESNEL; 42W, 960*552, T=2.0	
1	AA94-08458A	ASSY PCB MISC-SUB-AMP; SP42W5HFS/XEF, J52A		1	AA67-00207A	SCREEN-FILTER; T=82%, 960*552*2, G=110, AG	
1	AA95-01841C	ASSY SUB-PCB, SENSOR; DPPCL545R, P54A, AA95		1	BP39-00009A	LEAD CONNECTOR ASSY; P54A/SVP-42W5, UL2547	
1	AA94-11168E	ASSY PCB MISC-V/M; PCL5415R3S/XAA, P54A,		1	AA39-00285A	LEAD CONNECTOR; P, JTV 42 W5	
1	AA59-00171A	MODULE-FOCUS, PACK; SVP-5200, S300-P3, -		1	BP65-00001B	TERMINAL-BOARD, ANT; DP, 42W5, SESA, AA65-00	
1	AA96-20130G	ASSY POWER CORD; CP2/NO(4.0R), H/C 2		1	AA26-00101A	TRANS FB; FWZ50A001E/FFA97513B, 12KV, 5P-	
1	BP91-00005C	ASSY CABINET WOOD; WOOD, EUP, 42W5		1	AA61-00049B	HOLDER-BOX; PP, -, NTR, V0, AA61-20285A	
2	AA64-02724A	CABINET-WOOD; 42W5, WOOD, SDE8336R		1	BP61-00043B	HOLDER-SENSOR; W9, PC, HB, VIOLET	
2	AA61-00616B	HOLDER-CRT, MAIN; 54J7, DP, -, -, AA61-005		1	AA64-60449B	INLAY-COVER; SP, 434JMF, PS, T0.5, 149, 3X69.5	
2	AA61-00097A	HOLDER-WIRE; -, NYLON 6/6, -, -, NTR, -		1	BP64-00029A	INLAY-SUPPORT; 42W5, PS SHEET, T0.5, 94V0	
2	BP61-00075A	HOLDER-JERSEY; ASSY; W3, ABS, V0, GRAY, 63-000		1	AA65-30013A	CLAMP-WIRE; -, NYLON-6	
2	AA61-00094C	HOLDER-RAIL; PC, J533R, ABS, -, -, BLK, HB, 480		1	AA65-30018A	CLAMP-WIRE; DONG-A, NYLON-66, -, -, DATL-60	
2	BP61-00019A	HOLDER-PALLET; 42W5, HIPS, HB, BLK		1	AA65-30104B	CLAMP-WIRE; ALL MODEL, NYLON 66, V2, -, BLK, W	
2	AA61-00533B	BRACKET-GRILLE; 43, 54, 62J8, SECC-1, T0.5, -		1	AA65-30008A	CLAMP-CORD; PE, HB, -, BLK, -	
2	3001-001107	SPEAKER; 20W, 8ohm, 95dB, 1300Hz		1	BP61-00052A	HOLDER-WIRE; P, JTV, NYLON, 66, NATURAL	
2	3001-000279	SPEAKER; 30W, 8OHM, 91DB, 20HZ		1	6003-001019	SCREW-TAPTITE; RH, +, B, M4, L12, ZPC(BLK), SWR	
2	AA98-00049A	ASSY-LEAD, CON; -, LEAD-CON, CORE, AA39-20505		1	6003-001022	SCREW-TAPTITE; RH, +, B, M3, L12, ZPC(BLK), SWR	
3	3301-001201	CORE-FERRITE; AE, 21x11x32mm, 1500, 280G		1	6003-001026	SCREW-TAPTITE; RH, +, B, M4, L15, ZPC(BLK)	
2	AA39-00086A	LEAD CONNECTOR ASSY; 2, 2UF, REC, REC, 200MM		1	AA60-10011A	SCREW-TAPTITE; -, SWRCH18A, M4, L12, HH, +, PC,	
2	AA60-10051A	SCREW-WOOD; -, SWRCH18A, M4, L16, PH, +, -, ZP		1	6005-001003	SCREW-WOOD; HH, +, M4, L19, ZPC(BLK), SWRCH18A	
2	AA61-00864A	HOLDER-PCB; W3, HIPS, V0, BLK		1	6003-001339	SCREW-TAPTITE; HH, +, B, M4, L15, ZPC(BLK), SWR	
2	BP61-00035A	BRACKET-GRILLE; 42W5, SECC-1, T1.0		1	AA63-70002B	SHEET; PE, FOAM, T1.0, 50G	
2	AA61-00617B	BRACKET-CRT, MAIN; DP, 54J7, AA61-00475B		1	0201-001059	ADHESIVE-SIL; #9590, WHT, -, CARTRIDGE	
2	6006-001094	SCREW-ASS'Y WOOD; WW, HH, +, M7, L32, ZPC(YEL)		1	0203-001329	TAPE-OPP MASKING; ANT-300P, T0.07, W15.0, L15	
2	AA61-00618C	GUIDE-FLOW; 54J8, J7, ABS, IVORY, V0		1	AA60-00072B	SPACER-COVER, DUST; 43, 54, 62J9, SPONGE 94HF	
1	BP96-00013A	ASSY COVER P-C/FRONT, MASK; DP, 42W5, HIPS, H		1	BP73-00004A	RUBBER-CAP; 42W5, SILICONE, WHT, RUBBER	
2	AA64-02727C	CABINET-FRONT, MASK TOP; 42W5, HIPS, HB, G430		1	AA69-01678A	PACKING COVER, BOT; 42W5, H-3 AB, C3, YEL, 910	
2	AA61-01133A	VELCRO-B; COMMANDO, BST1 1/4H		1	BP69-00019D	PACKING CASE-OUT; 42W4, H-3 YEL, C3, SESA	
2	AA64-02211E	BADGE-BRAND; 72MM, AL FORGING, SVM1132, SAMS		1	AA69-01651A	CUSHION-SET; 42W5, PS FOAMED, C=0.02	
2	6003-001019	SCREW-TAPTITE; RH, +, B, M4, L12, ZPC(BLK), SWR		1	AA59-00220A	REMOCON; TM63, SHARK, 51, L/GRAY, EAST ASI	
1	BP96-00014A	ASSY C/FRONT BOTTOM; DP, 42W5, HIPS, HB		1	AA68-01778A	I/B P, JTV (RPM 995)	
2	AA64-02725A	CABINET-FRONT, BOT; 42W5, HIPS, HB, G4309, SVM		1	6801-001014	CARD REGISTRATION; XEU, ENG, MOJO100, L150, W	
2	AA64-02743A	BADGE-DECORATION; 42W5, AL, NI		1	AA39-40001B	CABLE-RCA; 1500MM	
2	BP73-00001A	RUBBER-SHEET; 42W5, NBB RUBBER, GRAY, 10*20		1	4301-000115	BATTERY-ALKALINE; 1.5V, 750mAh, AAA, 10,	
2	AA61-01132A	VELCRO-A; COMMANDO, BST1 1/4H		1	AA68-50523A	LABEL-BACK, DOLBY; A/P 100(G), CW764AHD, DOL	
2	6003-001019	SCREW-TAPTITE; RH, +, B, M4, L12, ZPC(BLK), SWR		1	AA68-50509A	LABEL-BOX; A/P 90(G), ALL MODEL, -, WHT, L250	
1	AA96-01135A	ASSY COVER P; 42W5		1	AA68-00344A	LABEL-TRANSFER BOX; -, TF-53B	
2	BP64-00013A	CABINET-FRONT, PANEL CONTROL; DP, 42W5, AA64		1	AA68-00526A	LABEL-RATING; ART PAPER(90), ALL MODEL, IAM	
2	AA64-02740A	KNOB-POWER; 42W5, ABS, HB, G3676, COT		1	AC68-00347A	LABEL-TRANSFER RATING; ALTA RESISTENCI	
2	AA61-60003J	SPRING-CS; -, SUS304, -, -, OD6,		1	AA68-00340A	LABEL-WARRANTY; -, -, WHT, 75MM, 20	
2	AA64-02742A	WINDOW-RMC, LED; 42W5, PC, CLR		1	AA68-00345A	LABEL-TRANSFER WARRANTY; -, TF-53B5D	
2	BP64-00011A	KNOB-CONTROL; DP, 42W5, AA64-02739A, 10.5KG		1	AA69-00862A	BAG PE; -, HDPE PE FOAM, T0.03, W400, H240	
2	AA61-01130A	GUIDE-KNOB, CONTROL; 42W5, ABS, HB, G3676, SVM		1	AA69-00744L	BAG-SHEET; -, HDPE PE FOAM, T0.015, W1650, H1	
2	AA94-08320A	ASSY PCB MISC-CONTROL; SP42W5HFS/XEF, J52A		1	AA63-10002A	BAND-TIE; -, NYLON66 V2, -, -, L100, NTR, -	
2	AA61-20129A	HOLDER-WIRE; -, NYLON-66, -, -, NTR, DAFC-25		1	AA63-10002A	BAND-TIE; -, NYLON66 V2, -, -, L100, NTR, -	
2	AA61-01132A	VELCRO-A; COMMANDO, BST1 1/4H		1	0203-000402	TAPE-KRAFT; KRAFT, T0.17, W18, L50, BLK	
2	AA61-01133A	VELCRO-B; COMMANDO, BST1 1/4H		1	AA68-02415A	CARD-RTF; COLORIT 54 CREMA, MOJO80G, SPA, A	
2	6003-001019	SCREW-TAPTITE; RH, +, B, M4, L12, ZPC(BLK), SWR		1	AA02-00022A	TAPE ETC; SESA, T0.3, 75, 132, BLK	
2	6003-001023	SCREW-TAPTITE; RW, +, B, M3, L10, ZPC(YEL), SW		1	AA65-00020A	CLAMP CORE-WIRE; 55W9, NYLON 66	
2	BP64-00035F	INLAY-DECORATION; 42W5, AL, T0.4, SESA 1POLE		1	AA69-01876A	PALLET; ALL MODEL, WOOD, 600, 1200, 120	
1	BP64-00008E	CABINET-BACK, BOT; DP, 42W5, AA64-02729C, 19,		1	AA39-20577B	LEAD CONNECTOR ASSY; P54A/SVP-55W3HD, UL16	
1	BP64-00009A	CABINET-BACK, TOP; DP, 42W5, AA64-02728A, 38,		1	AC68-00285A	LABEL-TAPE TRANSPARENT; SESA, A/P, T0.3,	
1	AA40-00094A	TUNER; TCLW3101PD16A(S), PAL/SECAM, 181		1	AA63-10007B	BAND-PP; W18, CLEA	
1	AA40-00095A	TUNER; TCPW3001PC16A(S), PAL/SECAM, 181					

Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
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You can search for the updated part code through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr>

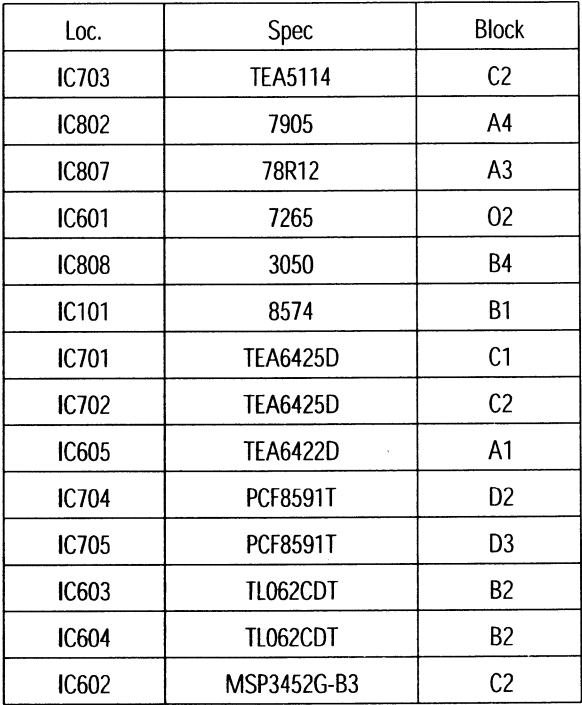
3-4 SP42W5HF1X/XEG

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
1	BP91-00453A	ASSY CPT-R;SP42W5HPX/XEU,J54A,CRT-R ASSY		2	AA61-00847A	CASE-COUPLER,B;DP;PROJ,AA61-00808B	
2	BP61-00079A	HOLDER-DY;PJT.V,T0.5,NYLON66 V2		2	AA03-00202A	CRT MONO;P16LSG03BMB,-,7inch,-,-,-,FLAT	
2	AA91-00735B	ASSY-BRKT,CRT;DPA91-00722A,PROJ		2	AA67-00156A	LENS;DELTA 240,CLEAR,C-ELEMENT	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC		2	AA67-10007A	LENS;-,-,DELTA,77,CLEAR,S4388,-	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	AA67-00190A	LENS;DELTA71,CLEAR C ELEMENT	
2	BP61-00091A	HOLDER-CRT;PJT.V,PCABS GF20%,BLK		2	AA67-00187A	LENS-ASSY;DELTA71,CLEAR A/B	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,-					
2	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+PC,		1	BP91-00245V	ASSY CHASSIS;SP42W5HF1S/XEF,J54A,C2.0	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		1	AA95-01841C	ASSY SUB-PCB,SENSOR;DP;PCL545R,P54A,AA95	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		1	BP94-00193A	ASSY PCB MISC-A/V FRONT;DP;SP42W5HPS/XEU	
2	AA60-00128B	SPACER-CRT;PROJ(65),SILICONE,D/GRAY		1	BP94-00238A	ASSY PCB MISC-VM;DP;HCM4215W3S/XAA,P55A	
2	AA39-00018A	LEAD CONNECTOR-ASSY;UL1015#22,UL/CSA,1P		1	BP94-00239A	ASSY PCB MISC-DY-JACK;DP;HCM4215W3S/XAA,	
2	AA33-00016A	MAGNET CONVERGENCE;JH 92LT - 29F,-,29,1M		1	BP94-00382A	ASSY PCB MISC-SUB AMP;DP;SP43T7HFS,J54A,	
2	AA27-00278A	DEFLECTION YOKE;-PT-S0712AC,S/S,PJTCRT(		1	BP94-00383A	ASSY PCB MISC-CG-AMP;DP;SP43T7HFS,J54A,C	
2	AA26-30006F	FLYBACK;*WIRE*-FWZ-50A001C,55,30KV		1	BP94-00442B	ASSY PCB MISC-SPK TERMINAL;DP, BP96-0003	
2	0204-00114B	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20					
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		1	BP94-00257A	ASSY PCB CRT-PCB;DP;SP42W5HFS/XEF,J54A	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0		2	AA59-00171A	MODULE-FOCUS,PACK;SVP-5200,S300-P3,-,-,-	
2	AA61-00845A	CASE-COUPLER,R;DP;PROJ,AA61-00806B		2	AA39-20577B	LEAD CONNECTOR ASSY;P54A/SVP-55W3HD,UL16	
2	AA03-00200A	CRT MONO;P16LSG03RJA,-,7inch,-,-,-,FLAT		1	AA40-00050A	TUNER;TCLW3101PD18A(S),TCLW3101PD18A(S),	
2	AA67-00157A	LENS;DELTA 240,RED,C-ELEMENT		1	AA40-00051A	TUNER;TCPW3001PC18B(S),TCPW3001PC18B(S),	
2	AA67-10008A	LENS;-,-,DELTA,77,RED,S4388,-		1	BP64-00008E	CABINET-BACK,BOT;DP;42W5,AA64-02729C 19.	
2	AA67-00188A	LENS;DELTA71,RED C ELEMENT		1	BP64-00009A	CABINET-BACK,TOP;DP;42W5,AA64-02728A 38.	
2	AA67-00187A	LENS-ASSY;DELTA71,CLEAR A/B					
1	BP91-00454A	ASSY CPT-G;SP42W5HPX/XEU,J54A,CRT-G ASSY		1	BP96-00014A	ASSY C/FRONT BOTTOM;DP;42W5,HIPS HB	
2	BP61-00079A	HOLDER-DY;PJT.V,T0.5,NYLON66 V2		2	AA64-02725A	CABINET-FRONT,BOT;42W5,HIPS,HB,G4309,SVM	
2	AA91-00735B	ASSY-BRKT,CRT;DPA91-00722A,PROJ		2	AA64-02743A	BADGE-DECORATION;42W5,AL,NI	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC		2	BP73-00001A	RUBBER-SHEET;42W5,NBB RUBBER,GRAY,10*20	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	AA61-01132A	VELCRO-A;COMMANDO,BST1 1/4H	
2	AA61-00809B	HOLDER-CRT;PROJ,PC/ABS GF 20%,BLK		2	6003-001019	SCREW-TAPTITE;RH,+B,M4,L12,ZPC(BLK),SWR	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,-		1	BP98-00088H	ASSY C/FRONT,MASK;SP42W5HF1S/XEF,J54	
2	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+PC,		2	6003-001019	SCREW-TAPTITE;RH,+B,M4,L12,ZPC(BLK),SWR	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK		2	AA64-02727Q	CABINET-FRONT,MASK TOP;42W5,HIPS,HB,G430	
2	AA60-00125B	SPACER-CRT;PROJ,SILICONE,D/GRAY		2	AA64-02211E	BADGE-BRAND;72MM,AL FORGING,SVM1132,SAMS	
2	AA39-00018A	LEAD CONNECTOR-ASSY;UL1015#22,UL/CSA,1P					
2	AA27-00278A	DEFLECTION YOKE;-PT-S0712AC,S/S,PJTCRT(		1	BP91-00005F	ASSY CABINET,WOOD;WOOD,42W5, DO	
2	AA26-30006F	FLYBACK;*WIRE*-FWZ-50A001C,55,30KV		2	AA60-10051A	SCREW-WOOD;-SWRCH18A,M4,L16,PH,+,-,-,ZP	
2	0204-00114B	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		2	AA61-00094C	HOLDER-RAIL;PCJ533R,ABS,-,-,-,BLK,HB,480	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		2	AA61-00097A	HOLDER-WIRE;-NYLON 6/6,-,-,-,NTR,-	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0		2	AA61-00508D	HOLDER-JERSEY;W3,ABS V0,GRAY,G4309	
2	AA61-00846A	CASE COUPLER G;DP;PROJ,AA61-00807B		2	AA61-00533B	BRACKET-GRILLE;43,54,62JB,SECC-1 ,T0.5,-	
2	AA03-00201A	CRT MONO;P16LSG03HKA,-,7inch,-,-,-,FLAT		2	AA61-00616B	HOLDER-CRT,MAIN;54J7,DP,-,-,-,AA61-005	
2	AA67-00158A	LENS;DELTA 240,GREEN,C-ELEMENT		2	AA61-00864A	HOLDER-PCB;W3,HIPS,V0,BLK	
2	AA67-10071A	LENS;DELTA 77 79,-,GREEN,C ELEMENT,		2	AA64-02724A	CABINET-WOOD;42W5,WOOD,SDE8336R	
2	AA67-00189A	LENS;DELTA71,GREEN C ELEMENT		2	BP61-00019A	HOLDER-PALLET;42W5,HIPS HB,BLK	
2	AA67-00187A	LENS-ASSY;DELTA71,CLEAR A/B		2	BP61-00035A	BRACKET-GRILLE;42W5,SECC-1,T1.0	
1	BP91-00455A	ASSY CPT-B;SP42W5HPX/XEU,J54A,CRT-B ASSY		2	AA61-10247A	BRACKET-FOCUS;S46DS,SECC,T1.0,-,-,-,-	
2	BP61-00079A	HOLDER-DY;PJT.V,T0.5,NYLON66 V2		2	AA60-10051B	SCREW-WOOD;-SWRCH18A,M3.5,L11,RH,+,-,-,-	
2	AA91-00735B	ASSY-BRKT,CRT;DPA91-00722A,PROJ		2	3001-000279	SPEAKER;30W,80HM,91DB,20HZ	
2	AA63-00076A	SPACER-LENS;FELT ,T1.0,GRAY,7CRT,PROJEC		2	3001-001107	SPEAKER;20W,80hm,95dB,1300Hz	
2	AA61-00810B	HOLDER-CAP;PROJ,PC,CLR		2	AA39-00086A	LEAD CONNECTOR-ASSY;2,2UF,REC,REC,200MM	
2	BP61-00091A	HOLDER-CRT;PJT.V,PCABS GF20%,BLK		2	AA98-00049B	ASSY-LEAD,CON;-LEAD-CON,CORE,AA39-20505	
2	AA61-00056B	BRACKET-LENS;PROJECTION,SECC,T1.6,-,-,-,-		2	AA61-00617B	BRACKET-CRT,MAIN;DP;54J7,AA61-00475B	
2	AA60-10011A	SCREW-TAPTITE;-SWRCH18A,M4,L12,HH,+PC,		2	6006-001094	SCREW-ASSY WOOD;WW,HH,+M7,L32,ZPC(YEL)	
2	AA60-00127B	SPACER-LENS;PROJ,SILICONE,D/GRAY		2	AA61-00618C	GUIDE-FLOW;54J8,J7,ABS,IVORY,V0	
2	AA60-00126B	SPACER-CAP;PROJ,EPDM,BLK					
2	AA60-00128B	SPACER-CRT;PROJ(65),SILICONE,D/GRAY		1	BP98-00090D	ASSY PANEL CONTROL;SP42W5HPS/XEU,P5	
2	AA39-00018A	LEAD CONNECTOR-ASSY;UL1015#22,UL/CSA,1P		2	BP64-00013A	CABINET-FRONT,PANEL CONTROL;DP;42W5,AA64	
2	AA33-00018A	MAGNET CONVERGENCE;JH 92LT - 36F,-,29,1M		2	AA64-02740A	KNOB-POWER;42W5,ABS,HB,G3676,COT	
2	AA27-00278A	DEFLECTION YOKE;-PT-S0712AC,S/S,PJTCRT(		2	AA61-60003J	SPRING-CS;-SUS304,-,-,-,OD6,	
2	AA26-30006F	FLYBACK;*WIRE*-FWZ-50A001C,55,30KV		2	AA64-02742A	WINDOW-RMC,LED;42W5,PC,CLR	
2	0204-00114B	ETHYLENE GLYCOL;MS-S02,CH20HCH20H,80,20		2	BP64-00011A	KNOB-CONTROL;DP;42W5,AA64-02739A 10.5KG	
2	0203-001303	TAPE-ACETATE;#1554,T0.25MM,W19MM,L30M,WH		2	AA61-01130A	GUIDE-KNOB,CONTROL;42W5,ABS HB,G3676,SVM	
2	0201-001030	ADHESIVE-SIL;SE9178,GRY,NON-FLOW,UL94V0					

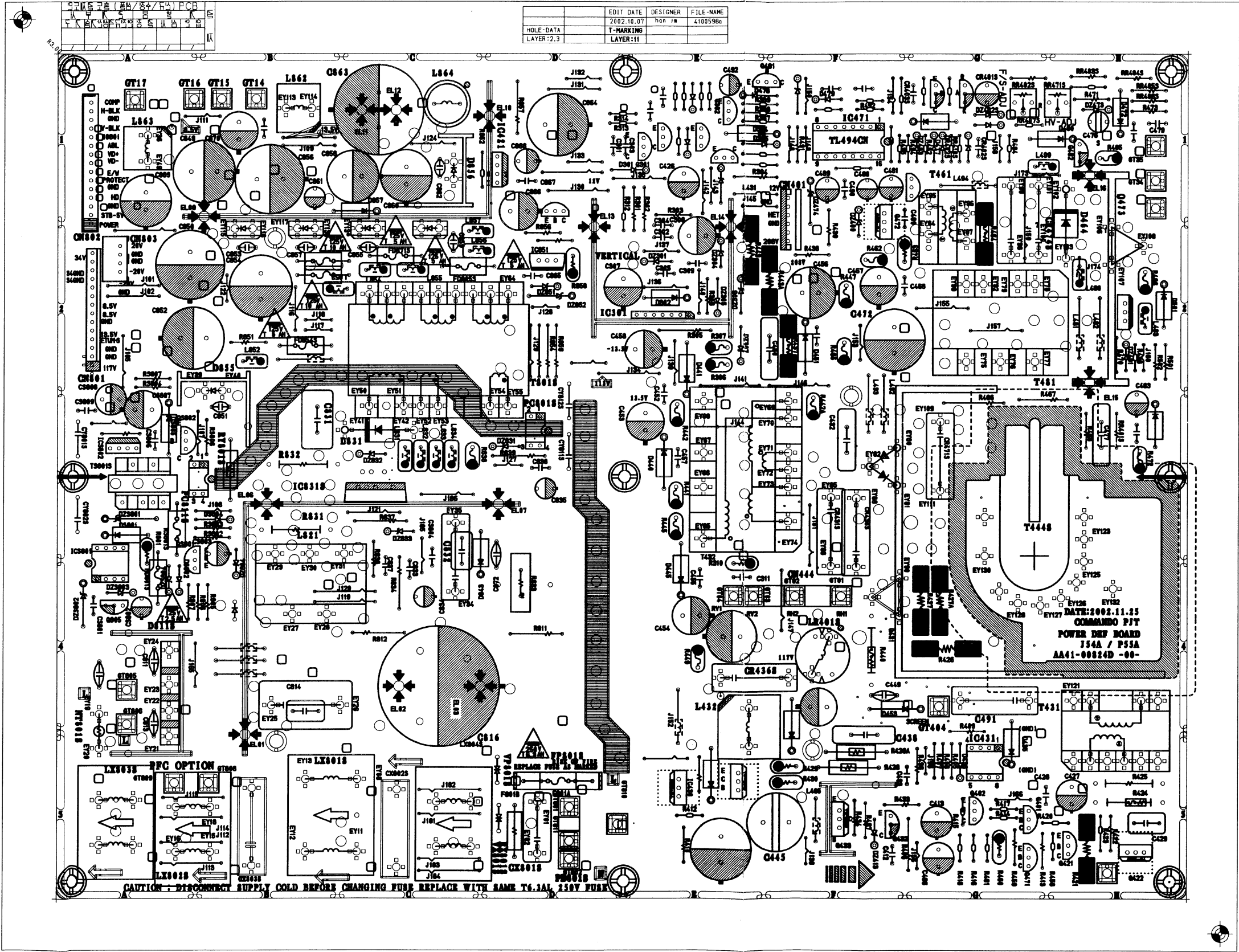
Electrical Parts List

Loc. No.	Code No.	Description ; Specification	Remark	Loc. No.	Code No.	Description ; Specification	Remark
2	BP94-00194A	ASSY PCB MISC-CONTROL:DP,SP42W5HPS/XEU.J					
2	AA61-20129A	HOLDER-WIRE:-,NYLON-66,-,-,NTR,DAFC-25					
2	AA61-01132A	VELCRO-A;COMMANDO,BST1 1/4H					
2	AA61-01133A	VELCRO-B;COMMANDO,BST1 1/4H					
2	6003-001019	SCREW-TAPTITE:RH,+,B,M4,L12,ZPC(BLK),SWR					
2	6003-001023	SCREW-TAPTITE:RWH,+,B,M3,L10,ZPC(YEL),SV					
2	BP64-00035J	INLAY-DECORATION:42W5,AL,T0.4,PA(COMAND					
1	AA26-00101A	TRANS FBT;FWZ50A001E/FFA97513B,12KV,5P,					
1	AA67-00204C	MIRROR-FRONT:DP,42W5,FSM,870*633*446					
1	BP61-00012A	BRACKET-MIRROR:DP,42W5,AA61-01123A,11.8K					
1	BP61-00010A	BRACKET-SCREEN,TB;DP,42W5,AA61-01121A,26					
1	BP61-00011A	BRACKET-SCREEN,RL;DP,42W5,AA61-01122A,13					
1	AA60-00072B	SPACER-COVER,DUST;43,54,62J9,SPONGE 94HF					
1	AA67-00193A	SCREEN-TINT;42W,958*550,T=0.73,P=052					
1	AA67-00193B	SCREEN-FRESNEL;42W,960*552,T=2.0					
1	AA67-00207A	SCREEN-FILTER;T=82%,960*552*2,G=110,AG					
1	BP61-00043B	HOLDER-SENSOR;W9,PC HB,VIOLET					
1	BP61-00052A	HOLDER-WIRE:PJT,V,NYLON,66,NATURAL					
1	AA61-00049B	HOLDER-BOX:-,PP,-,-,NTR,V0,AA61-20285A					
1	BP64-00029A	INLAY-SUPPORT:42W5,PS SHEET,T0.5,94V0					
1	AA64-60449B	INLAY-COVER;SP-434JMF,PS,T0.5,149,3X69.5					
1	BP73-00004A	RUBBER-CAP;42W5,SILICONE,WHT,RUBBER					
1	AA63-10002A	BAND-TIE:-,NYLON66 V2,-,-,L100,NTR,-					
1	AA65-30013A	CLAMP-WIRE:-,NYLON-6					
1	AA65-30018A	CLAMP-WIRE;DONG-A,NYLON-66,-,-,DAT1-60					
1	AA65-00020A	CLAMP CORE-WIRE;55W9,NYLON 66					
1	AA65-30105A	CLAMPER CORE-WIRE;ALL MODEL,NYLON 66,V2,					
1	AA65-30111A	CLAMP-WIRE;ALL MODEL,NYLON,V0,-,WHT,1T 1					
1	AA65-30008A	CLAMP-CORD:-,PE,HB,-,BLK,-					
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A					
1	6003-001026	SCREW-TAPTITE:RH,+,B,M4,L15,ZPC(BLK)					
1	6003-001023	SCREW-TAPTITE:RWH,+,B,M3,L10,ZPC(YEL),SV					
1	6005-001003	SCREW-WOOD;HH,+,M4,L19,ZPC(BLK),SWRCH18A					
1	6003-001339	SCREW-TAPTITE:HH,+,B,M4,L15,ZPC(BLK),SWR					
1	AA60-10011A	SCREW-TAPTITE:-,SWRCH18A,M4,L12,HH,+,PC,					
1	AA96-20130A	ASSY-POWER,CORD:-,CP2/NO(4.0R),H/C150,KJ					
1	AA39-30007A	IF-CABLE:-,T,100mm,1365#26					
1	BP39-00036A	LEAD CONNECTOR;J54A/SP42W5HP;UL2547#26,U					
1	BP39-00048A	LEAD CONNECTOR:P55A/SVP-47W3HRT,UL1617#2					
1	BP39-00009A	LEAD CONNECTOR ASSY:P54A/SVP-42W5,UL2547					
1	AA39-00006A	CABLE-RCA:-,RCA,3000MM,0.12/10,RED/WHT/Y					
1	AA63-70002B	SHEET;-,PE-FOAM,T1.0,50G					
1	AA69-01678A	PACKING-COVER,BOT;42W5,H-3 AB,C3,YEL,910					
1	BP69-00019D	PACKING CASE-OUT;42W4,H-3 YEL,C3,SESA					
1	AA69-01651A	CUSHION-SET;42W5,PS FOAMED,C=0.02					
1	BP59-00008A	REMOCON;-,TM65A,COMMOANDO,J54A,49,L/GRAY,					
1	BP68-00088A	MANUAL USERS;W3,ITA,W/P100(G),1,B5,J52A,					
1	0201-001059	ADHESIVE-SIL;#9590,WHT,-,CARTRIGE					
1	0203-000402	TAPE-KRAFT;KRAFT,T0.17,W18,L50,BLK					
1	AA02-00022A	TAPE ETC;SESA,T0.3,75,132,BLK					
1	0203-001329	TAPE-OPP MASKING;ANT-300P,T0.07,W15.0,L5					
1	AC68-00285A	LABEL-TAPE TRANSPARENT;SESA,A/P,T0.3,					
1	AA68-50523A	LABEL-BACK,DOLBY:A/P 100(G),CW764AHD,DOL					
1	AA68-00526A	LABEL-RATING;ART PAPER(90),ALL MODEL,LAM					
1	AC68-00347A	LABEL-TRANSFER RATING;ALTA RESISTENCI					
1	AA68-50509A	LABEL-BOX:A/P 90(G),ALL MODEL,-,WHT,L250					
1	AA68-00344A	LABEL-TRANSFER BOX:-,TF-53B					
1	AA68-00340A	LABEL-WARRANTY;-,-,WHT,75MM,20					
1	AA68-00345A	LABEL-TRANSFER WARRANTY:-,TF-53B5D					
1	AA69-00862A	BAG PE;-,HDPE PE FOAM,T0.03,W400,H240					
1	AA69-00744L	BAG-SHEET;-,HDPE PE FOAM,T0.015,W1650,H1					
1	6801-001015	CARD REGISTRATION;XEG,GERMAN,MOJO100					
1	AA68-02415A	CARD-RTF;COLORIT 54 CREMA,MOJO80G,SPA,A					
1	AA69-01876A	PALLET;ALL MODEL,WOOD,600,1200,120					
1	4301-000120	BATTERY-MN;1.5V,-,AA,14.5x50mm,-					
1	AA63-10007B	BAND-PP;W18,CLEA					

4-1 MAIN PCB



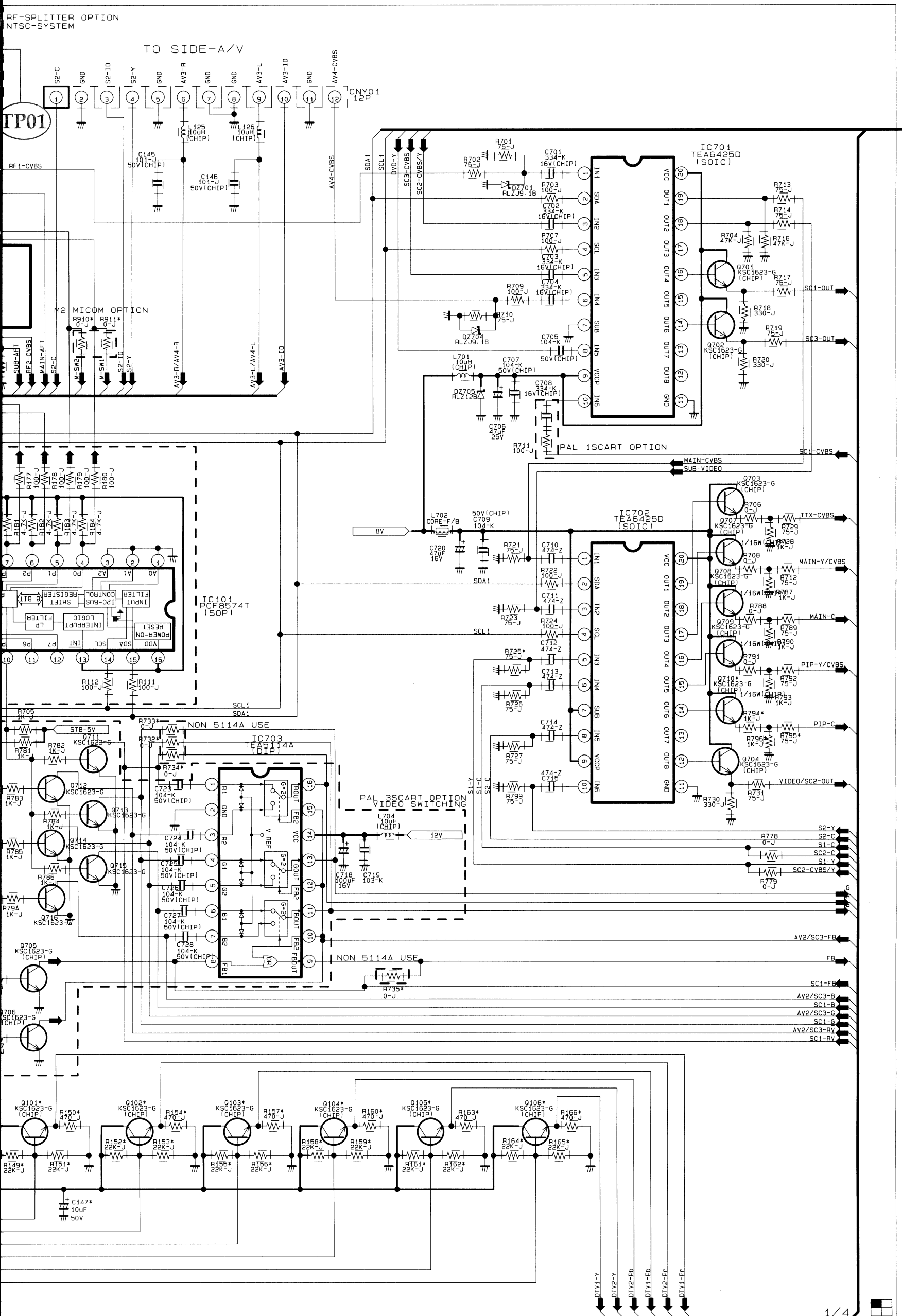
4-2 SUB PCB



Loc.	Spec	Block
IC431	4558	G4
IC430	KA317	D4
IC471	TL494CN	F1
ICS802	KA78R05	A2
ICS801	SE110N	C1
PC801S	PHOTO-COUPLER	C2
PC811S	PHOTO-COUPLER	A3
IC421	K78R12	B1
IC301	LA7845	D1
ICR01S	KA431LZ	F0
IC831S	STR-X6459	B3
Q423	KS5039F	E4
Q433	KSD73Y	E5
Q431	FJU6920YDTU	F3

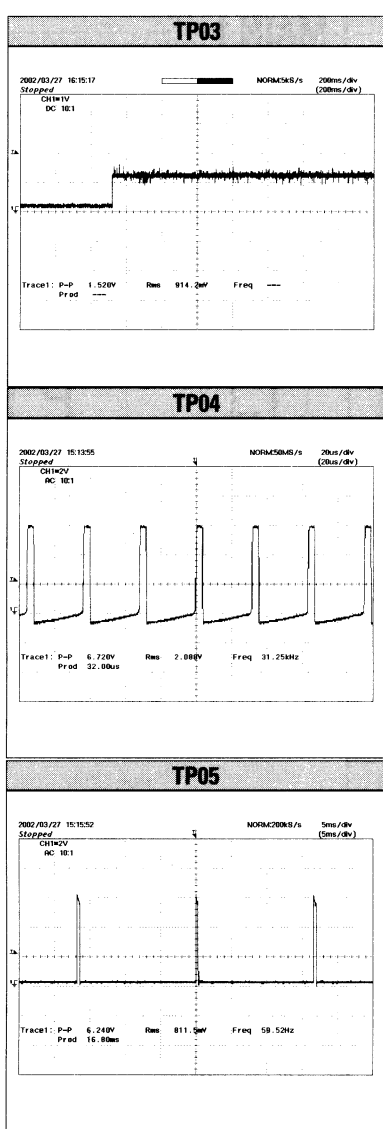
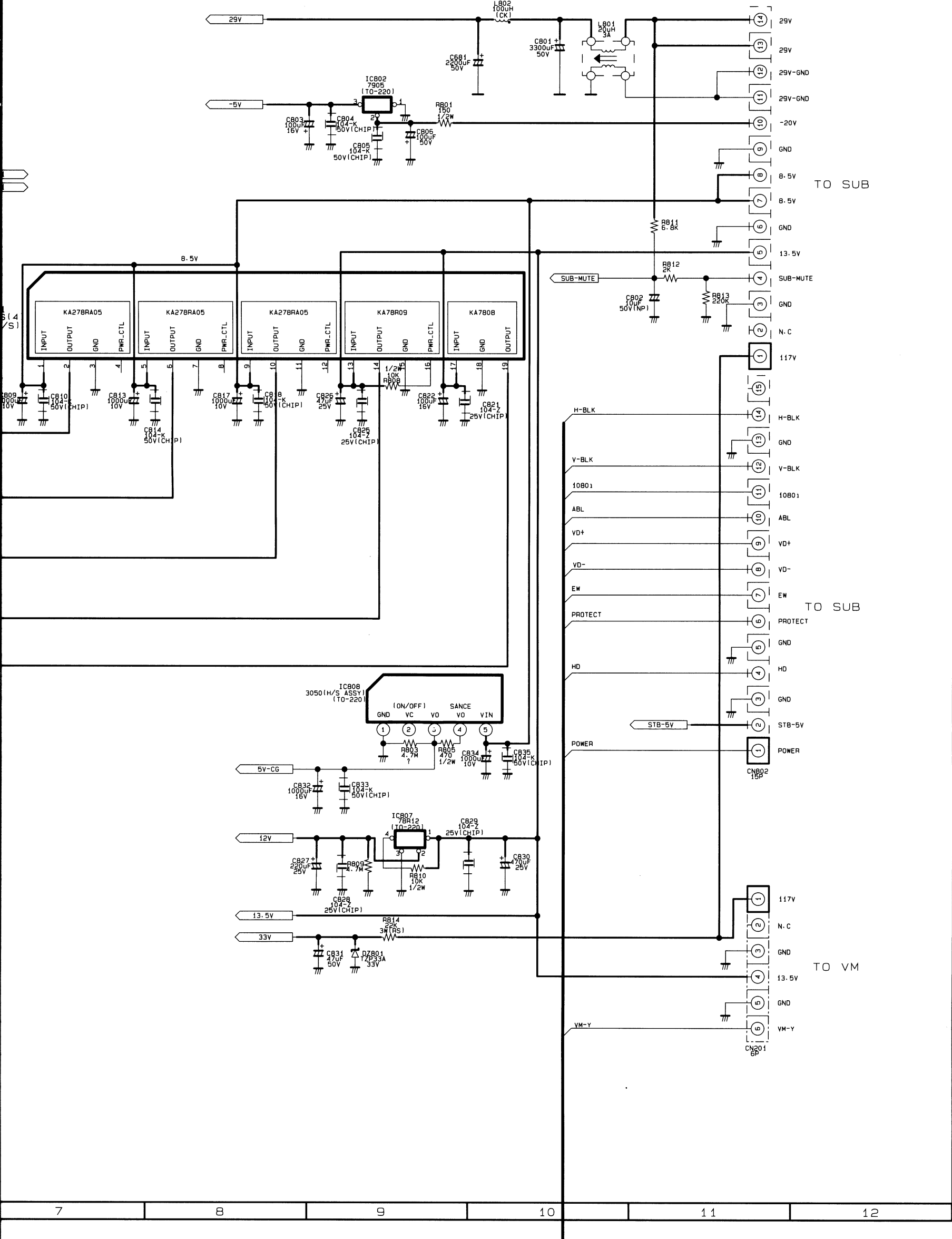
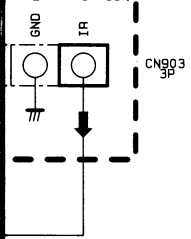
5-1 MAIN 1

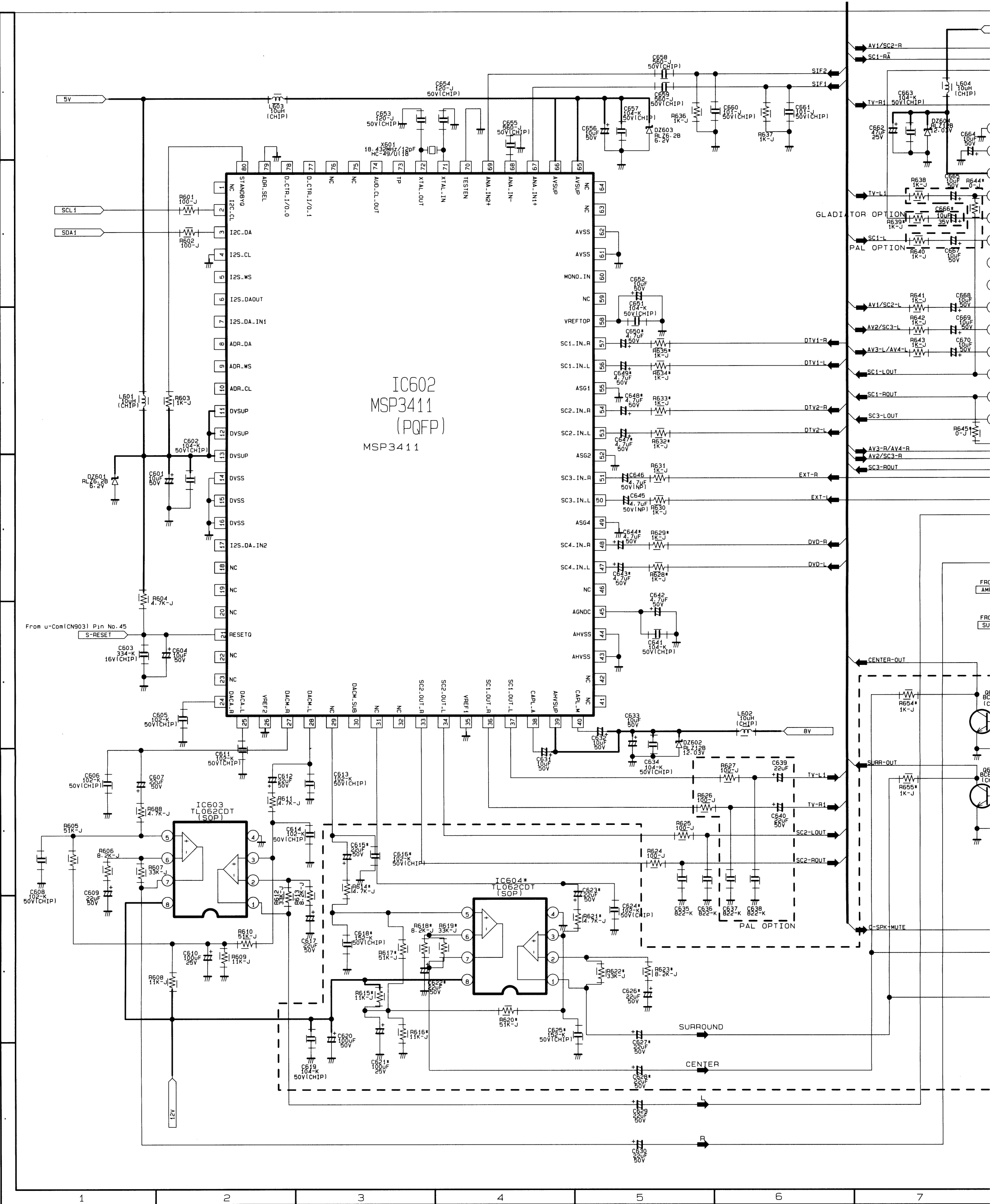


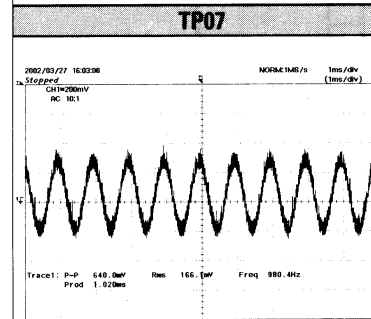
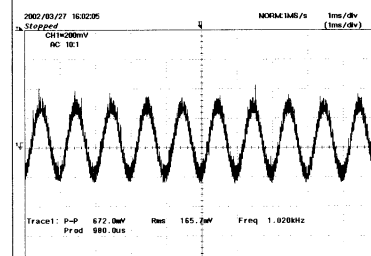
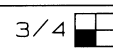




PRE-AMP
PRE-AMP OPTION

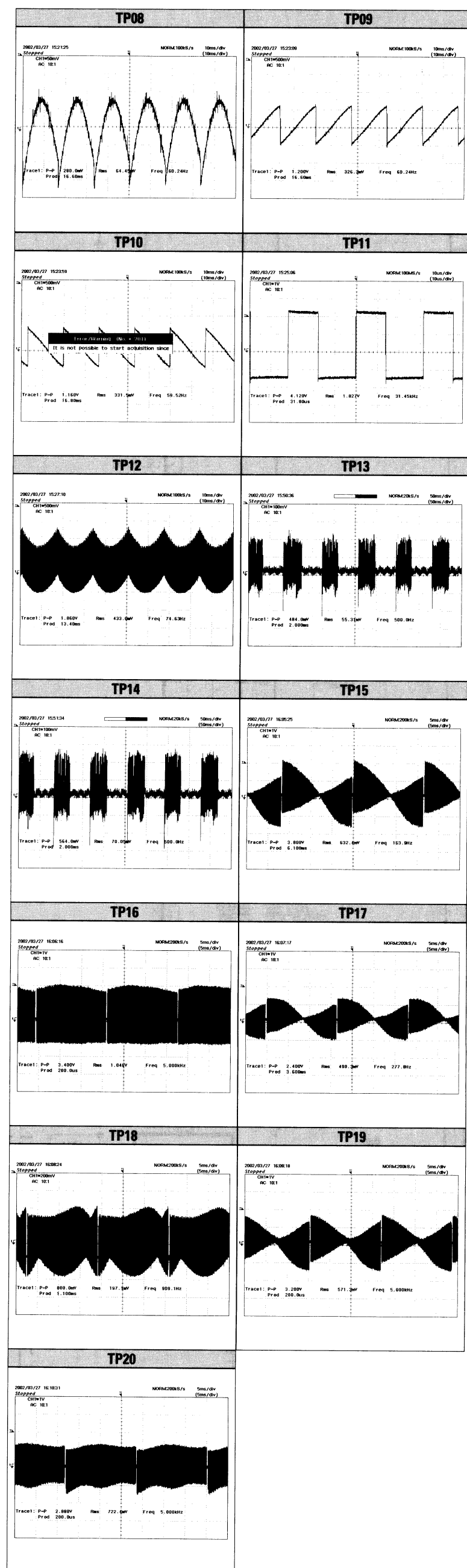
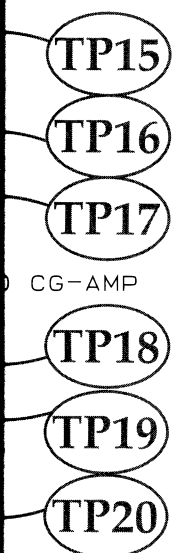
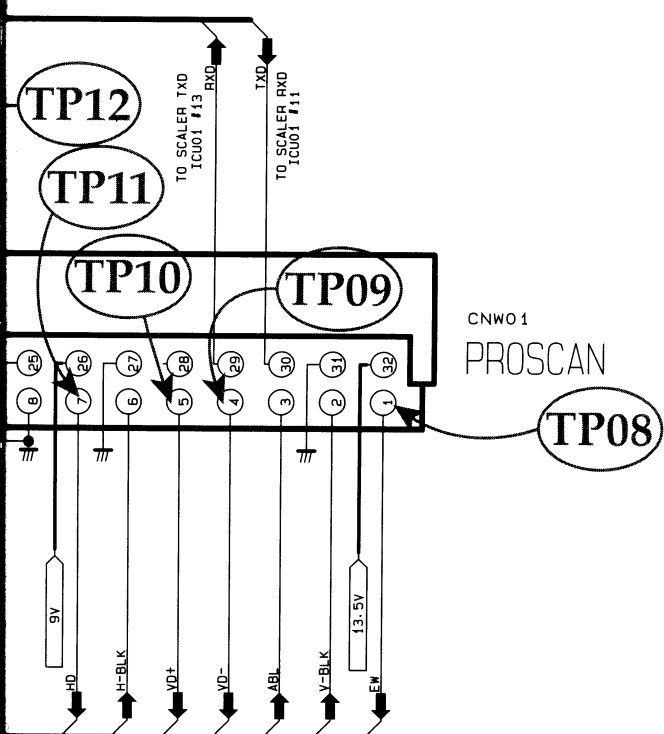


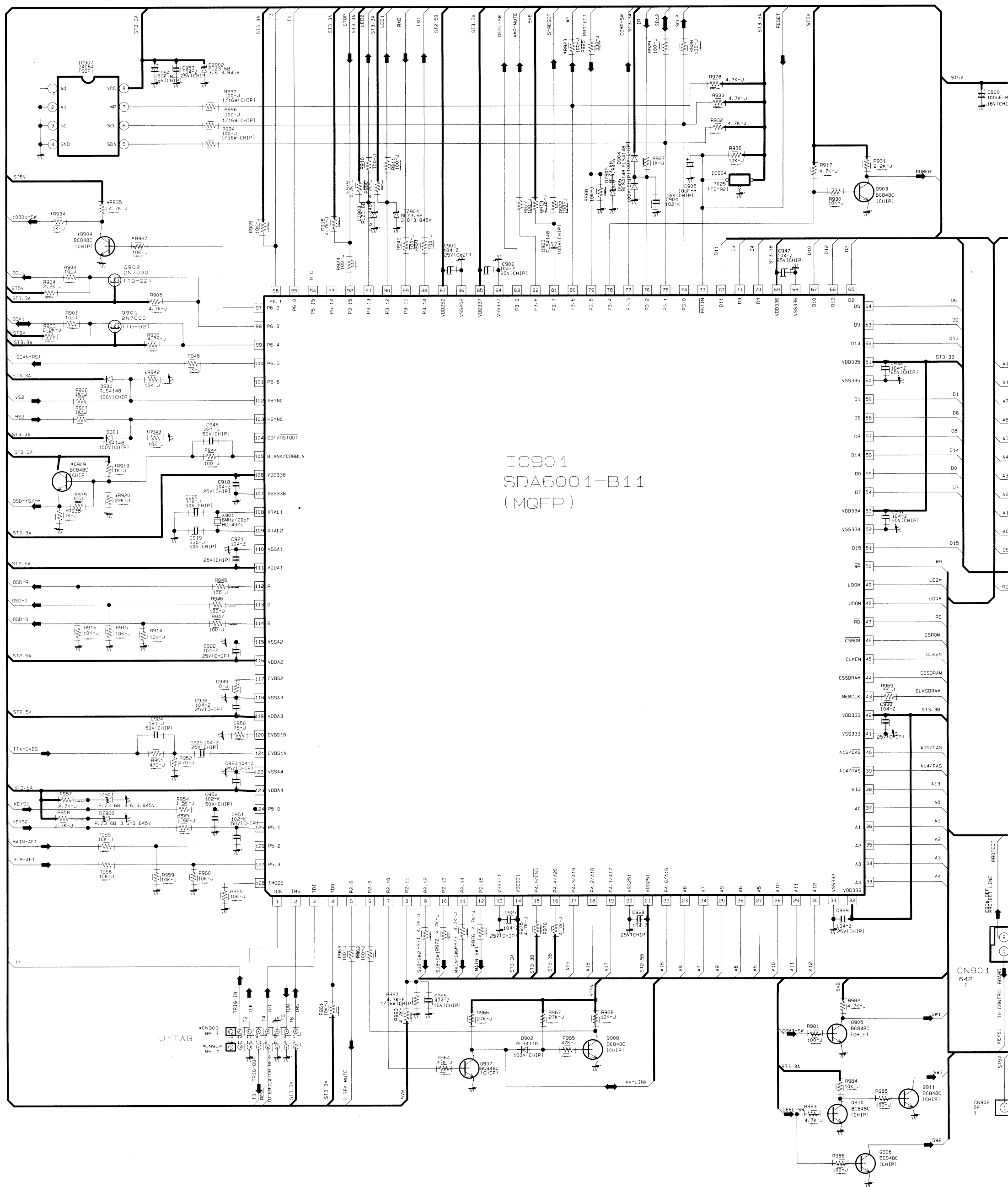




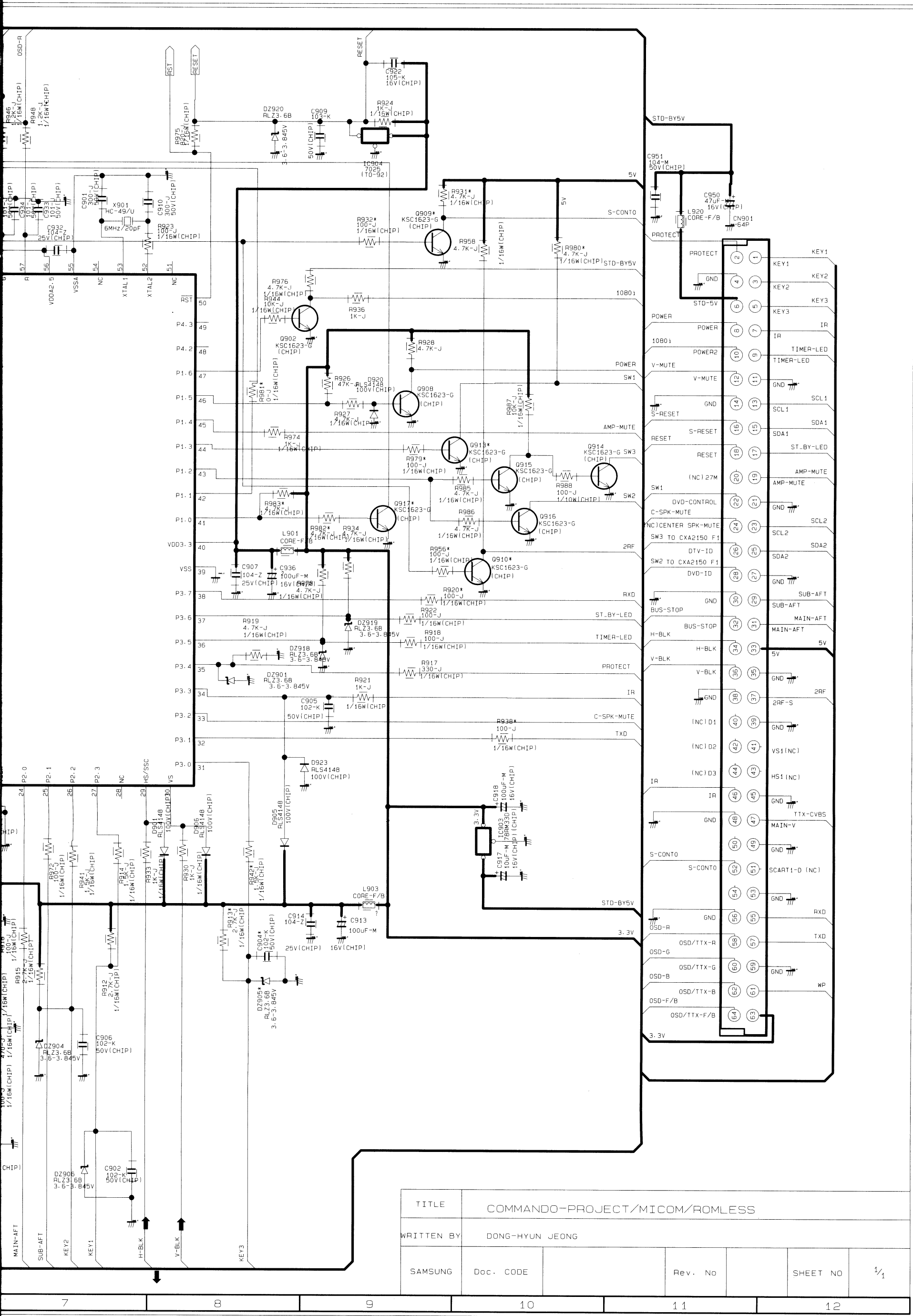
TP07





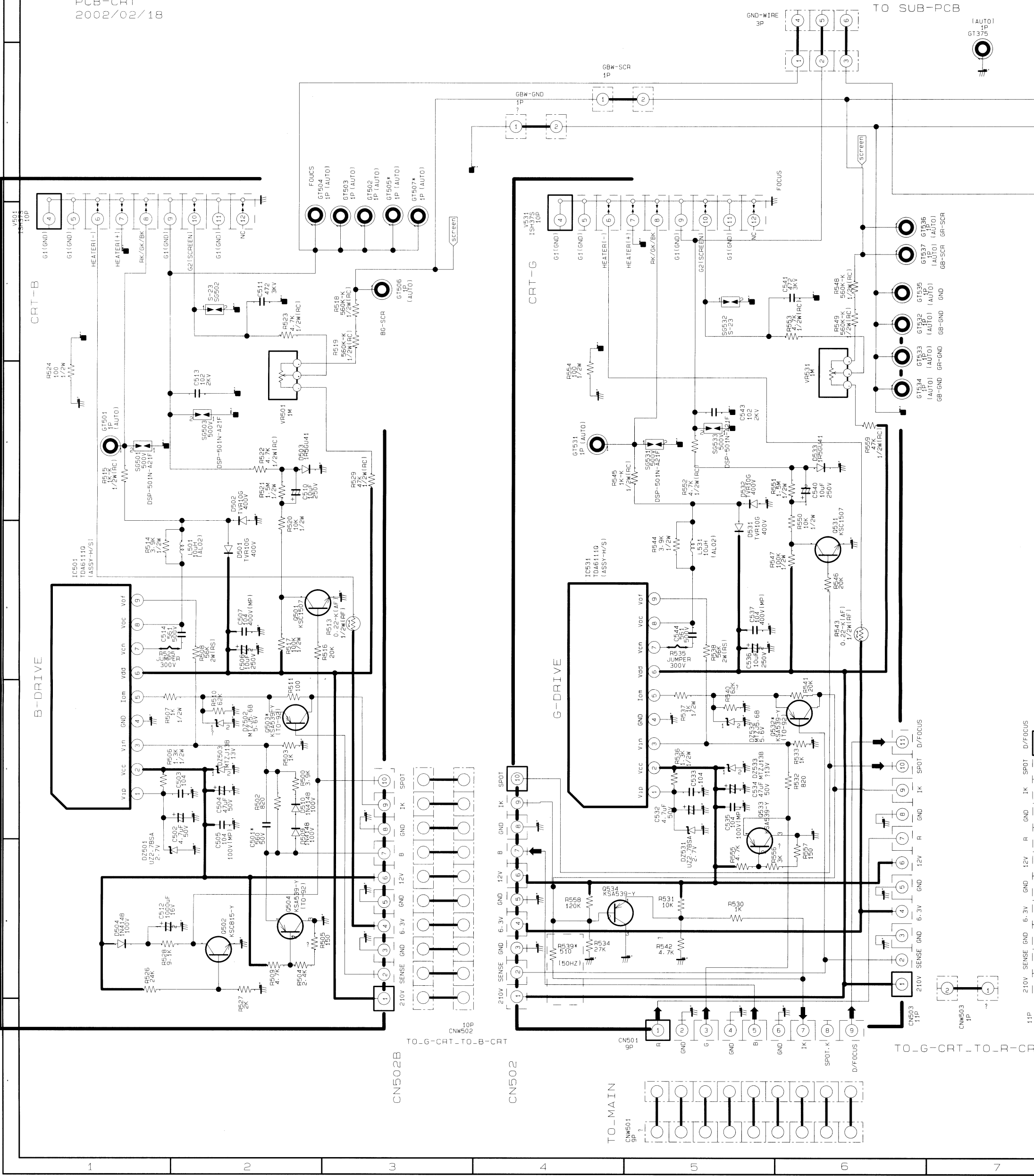


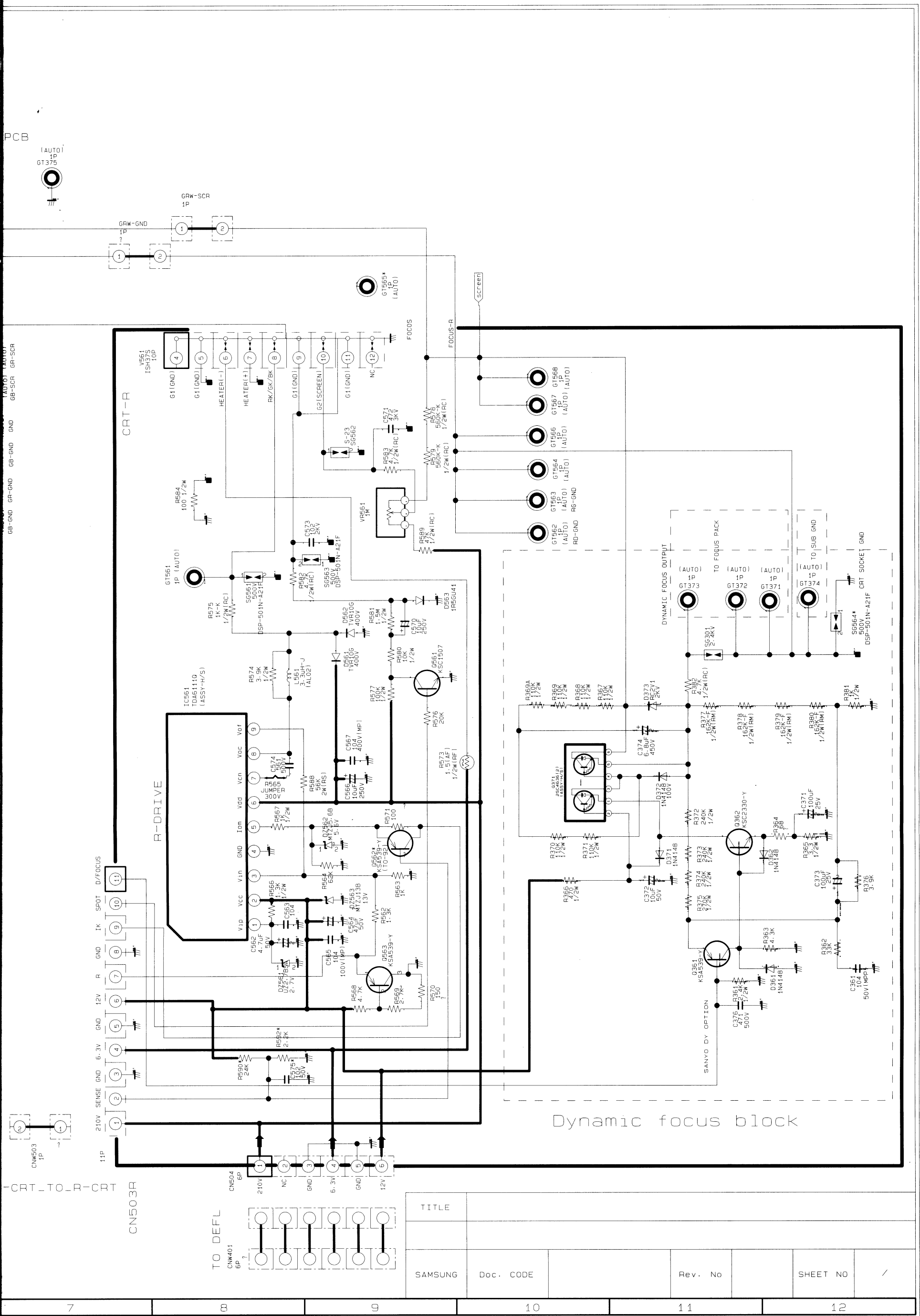




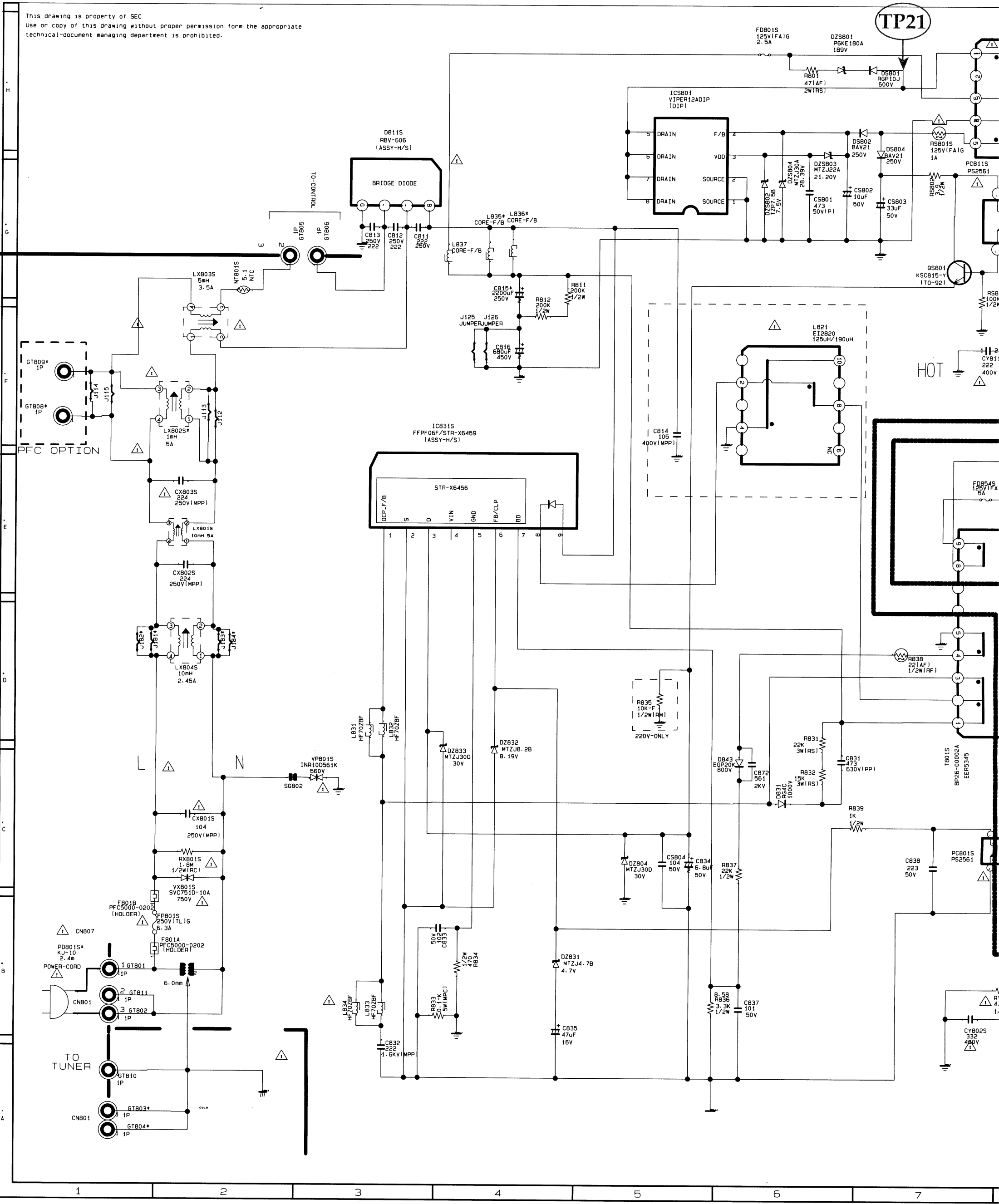
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CHASSIS : P55A/J54B
MODEL : HCM4215W
PCB-CRT
2002/02/18

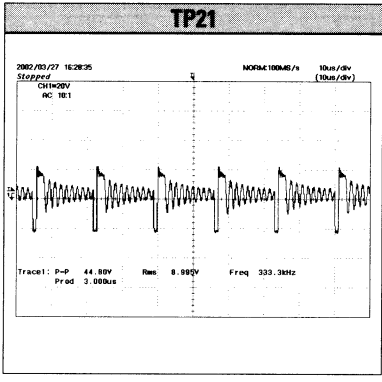
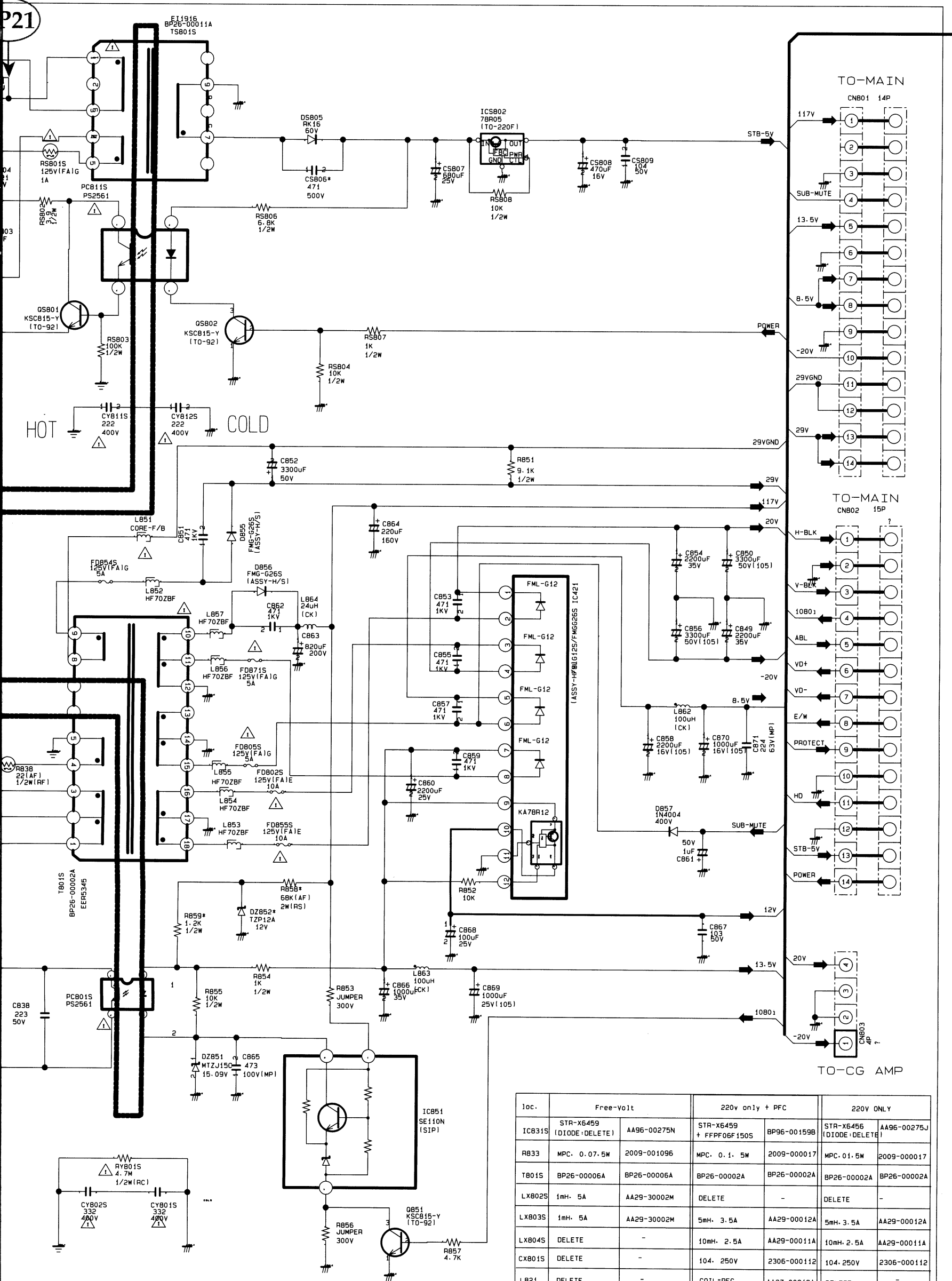




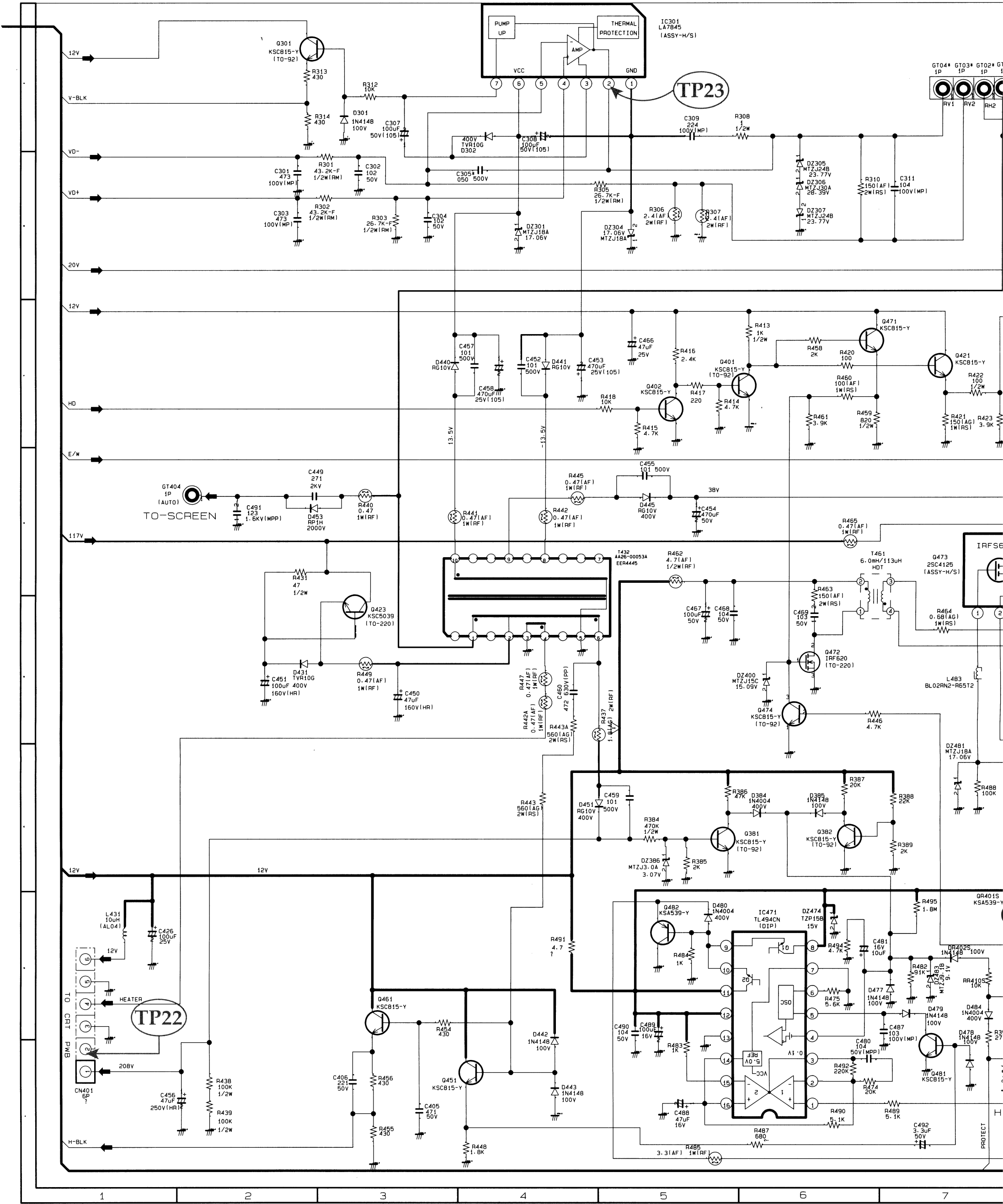
5-8 SUB 1

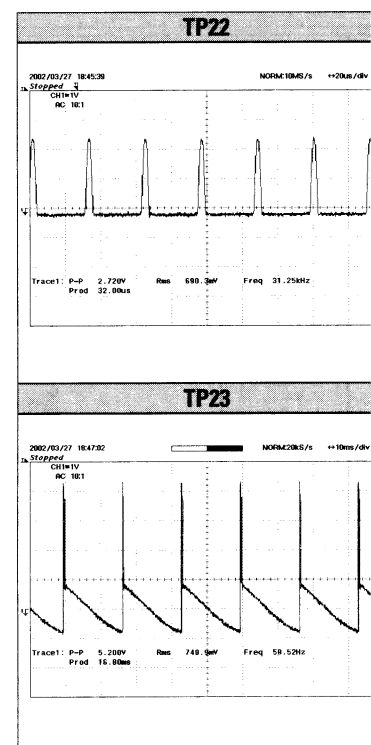


P21

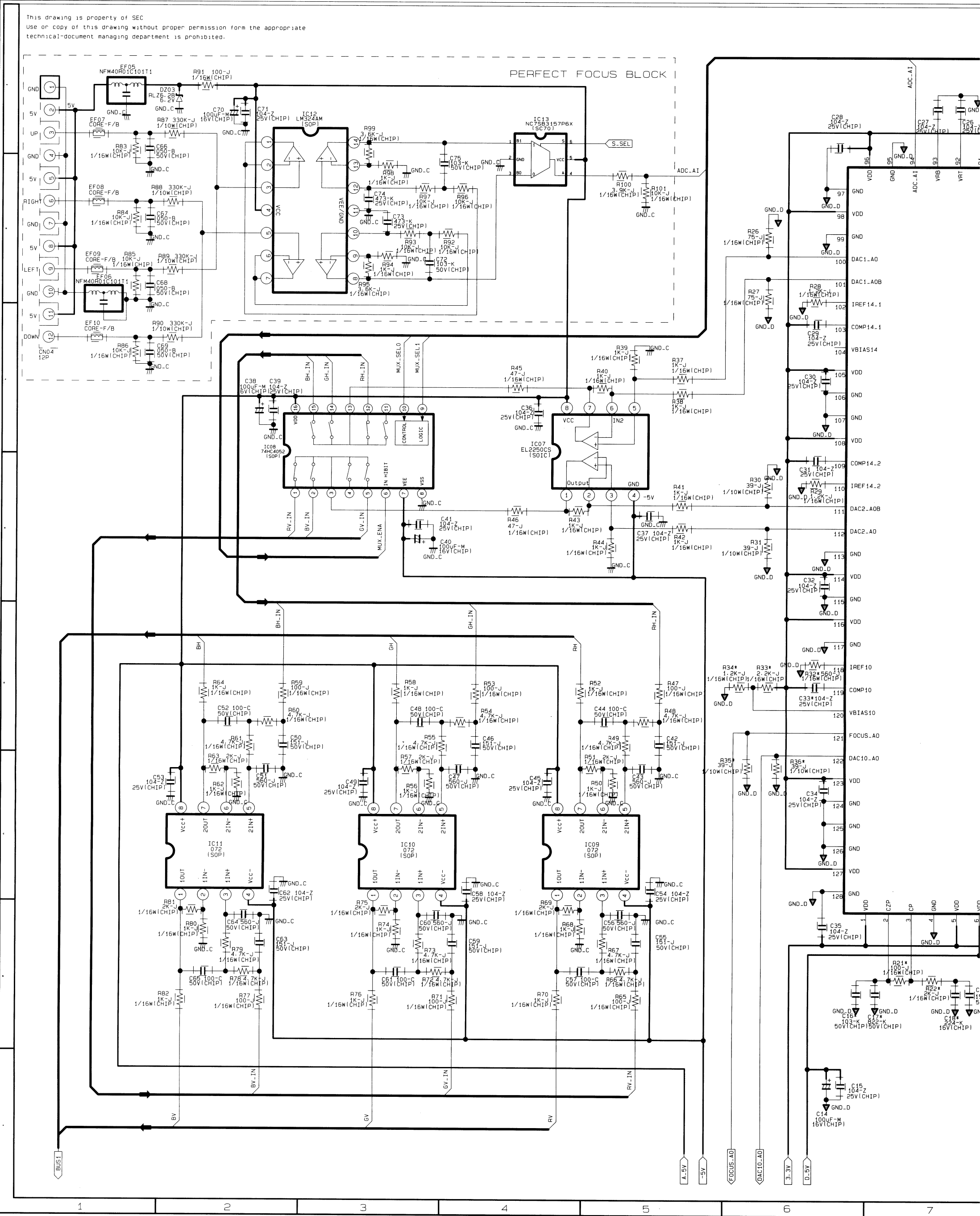


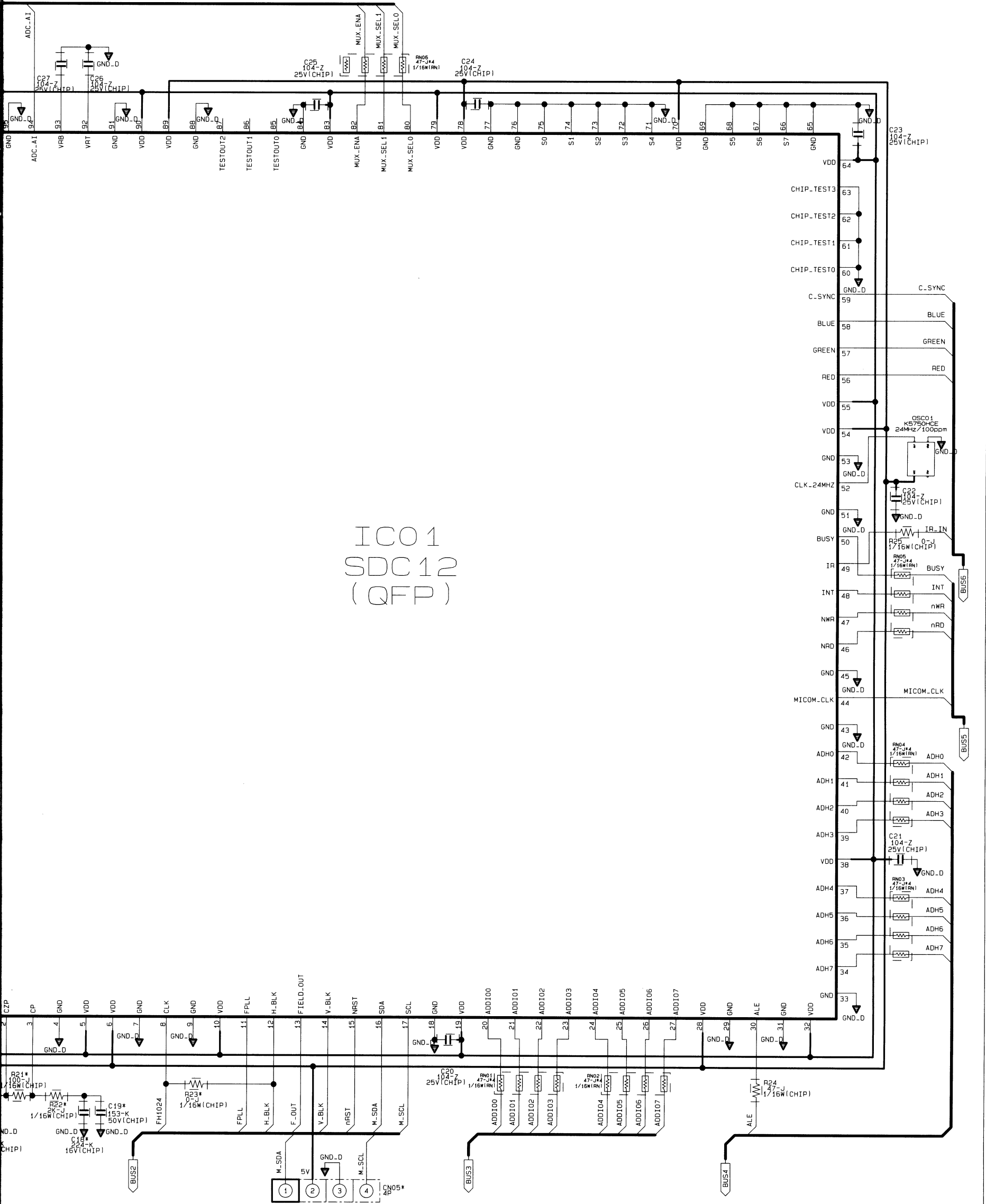
loc.	Free-Volt	220v only + PFC	220V ONLY
IC831S	STR-X6459 (DIODE:DELETE)	AA96-00275N	STR-X6459 + FFPF06F150S
R833	MPC. 0.07.5W	2009-001096	MPC. 0.1. 5W
T801S	BP26-00006A	BP26-00002A	BP26-00002A
LX802S	1mH. 5A	AA29-30002M	DELETE
LX803S	1mH. 5A	AA29-30002M	5mH. 3.5A
LX804S	DELETE	-	10mH. 2.5A
CX801S	DELETE	-	104. 250V
L821	DELETE	-	COIL=PFC
C814	DELETE	-	C-MPP. 105. 400V
L835	FERRITE-BEAD	3301-000287	DELETE
L836	FERRITE-BEAD	3301-000287	DELETE





5-10 CONVERGENCE (SDC12 - 1)



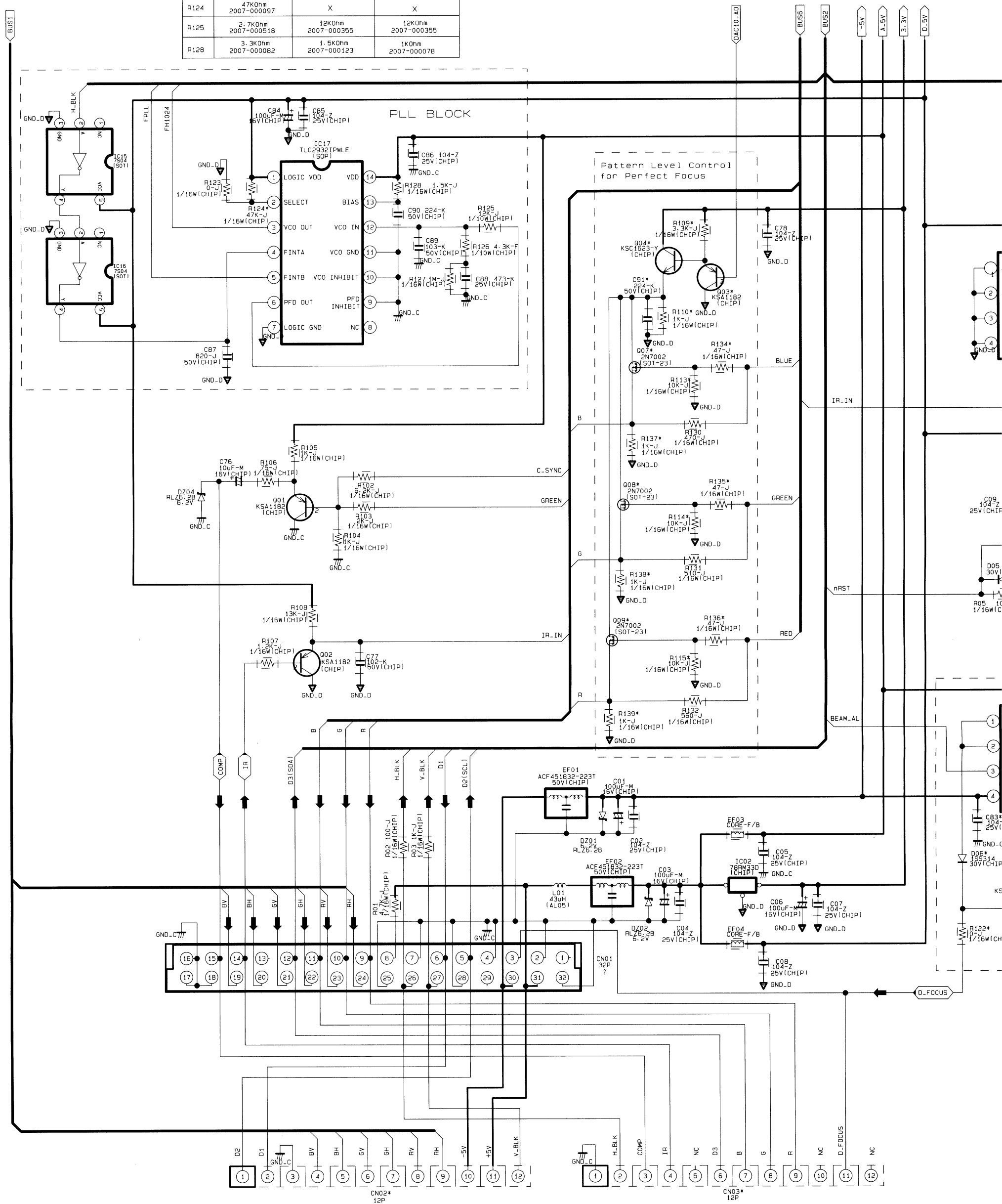


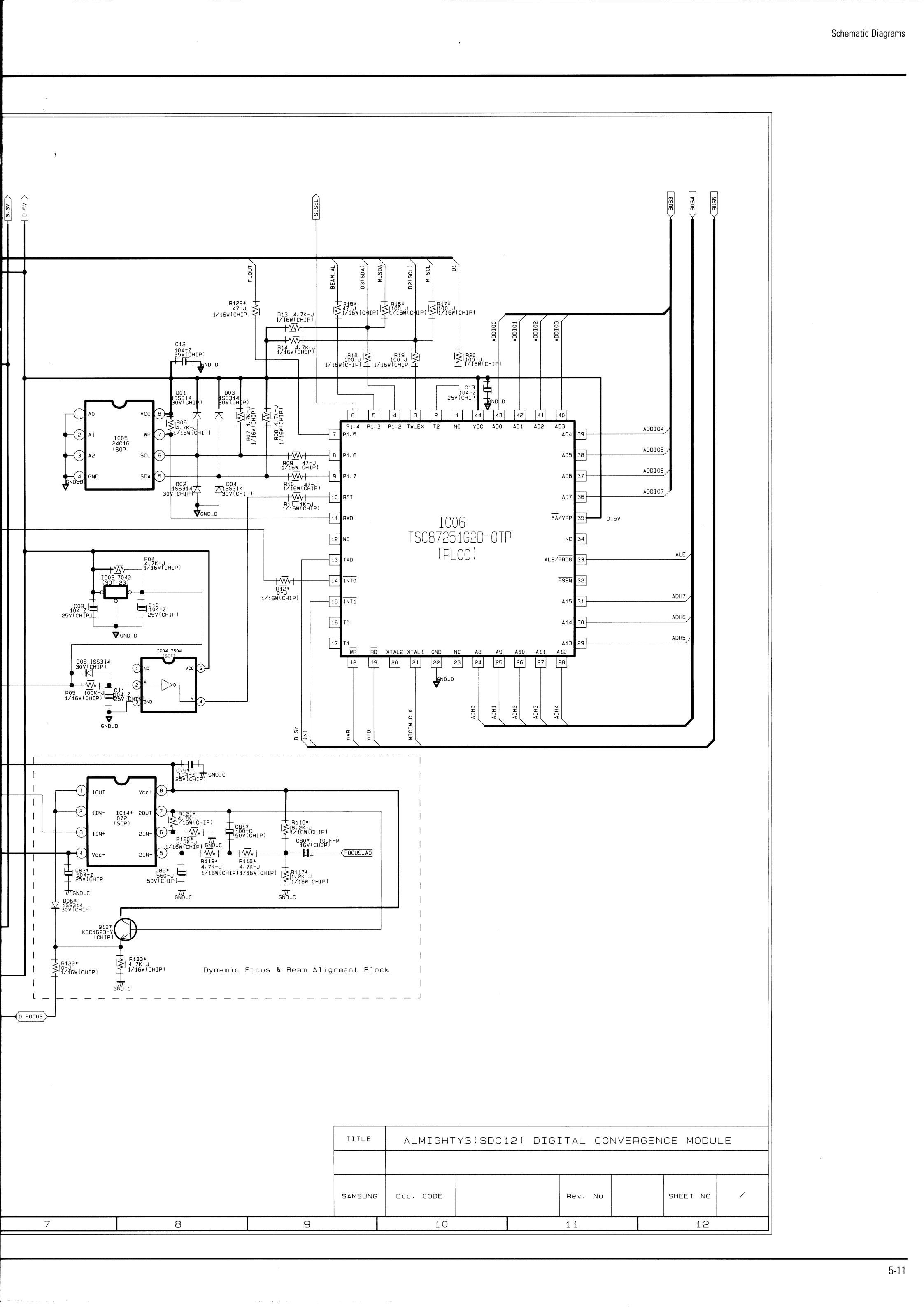
TITLE		ALMIGHTY3(SDC12) DIGITAL CONVERGENCE MODULE				
SAMSUNG		Doc. CODE	Rev. No	SHEET NO	/	

5-11 CONVERGENCE (SDC12 - 2)

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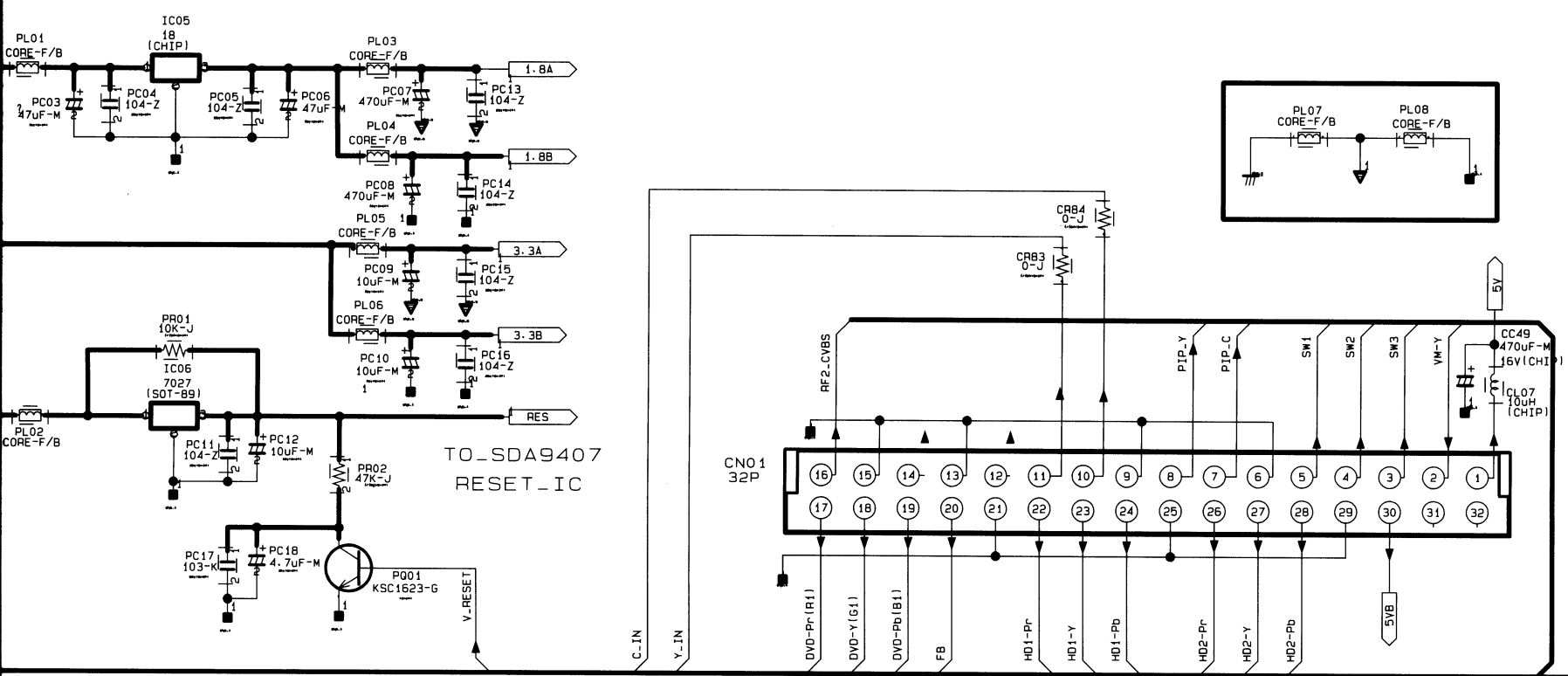
	1H	2H	3H
R123	X	00hm 2007-000070	00hm 2007-000070
R124	47K0hm 2007-000097	X	X
R125	2.7K0hm 2007-000518	12K0hm 2007-000355	12K0hm 2007-000355
R128	3.3K0hm 2007-000082	1.5K0hm 2007-000123	1K0hm 2007-000078





Schematic Diagrams





7

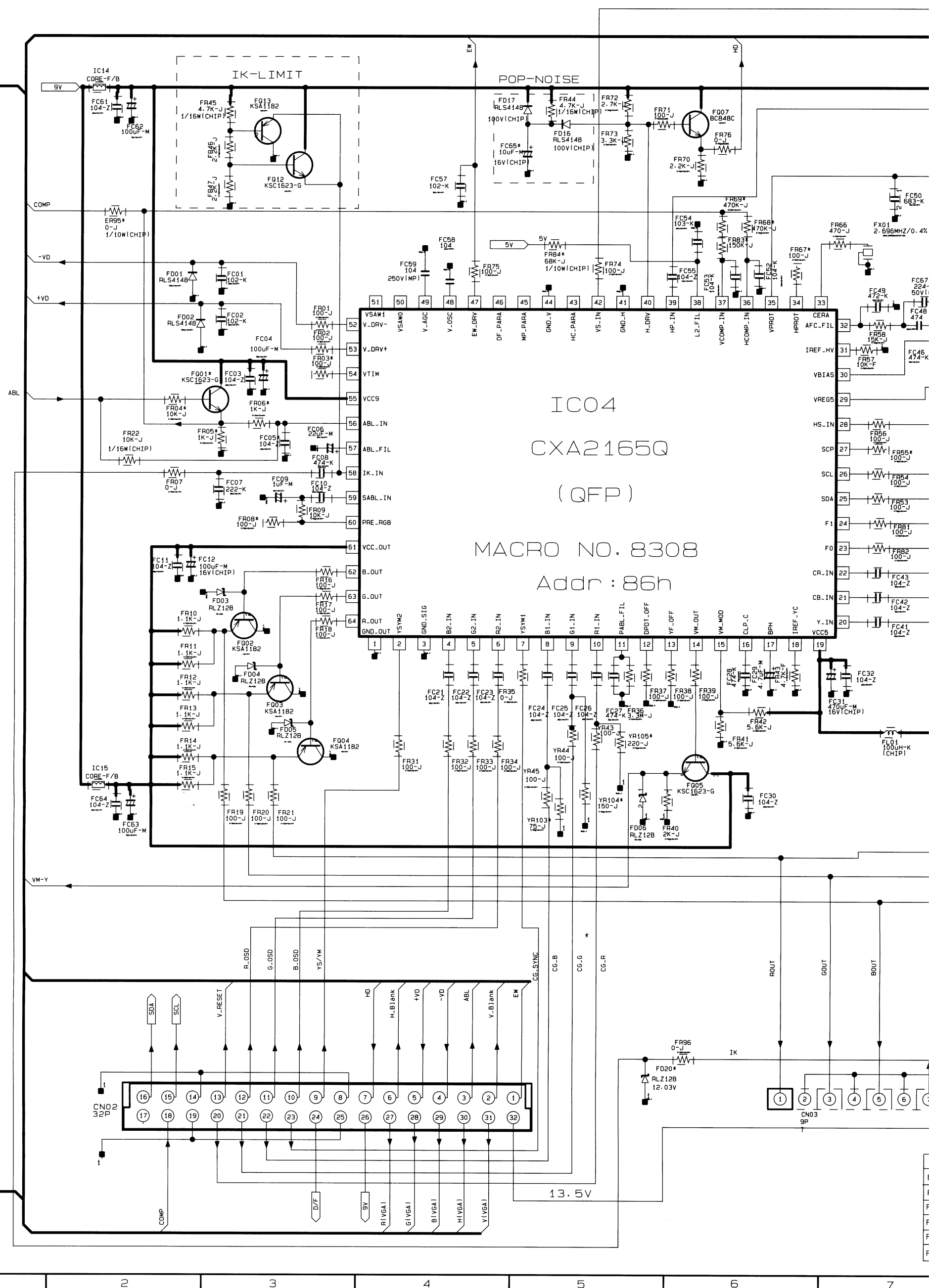
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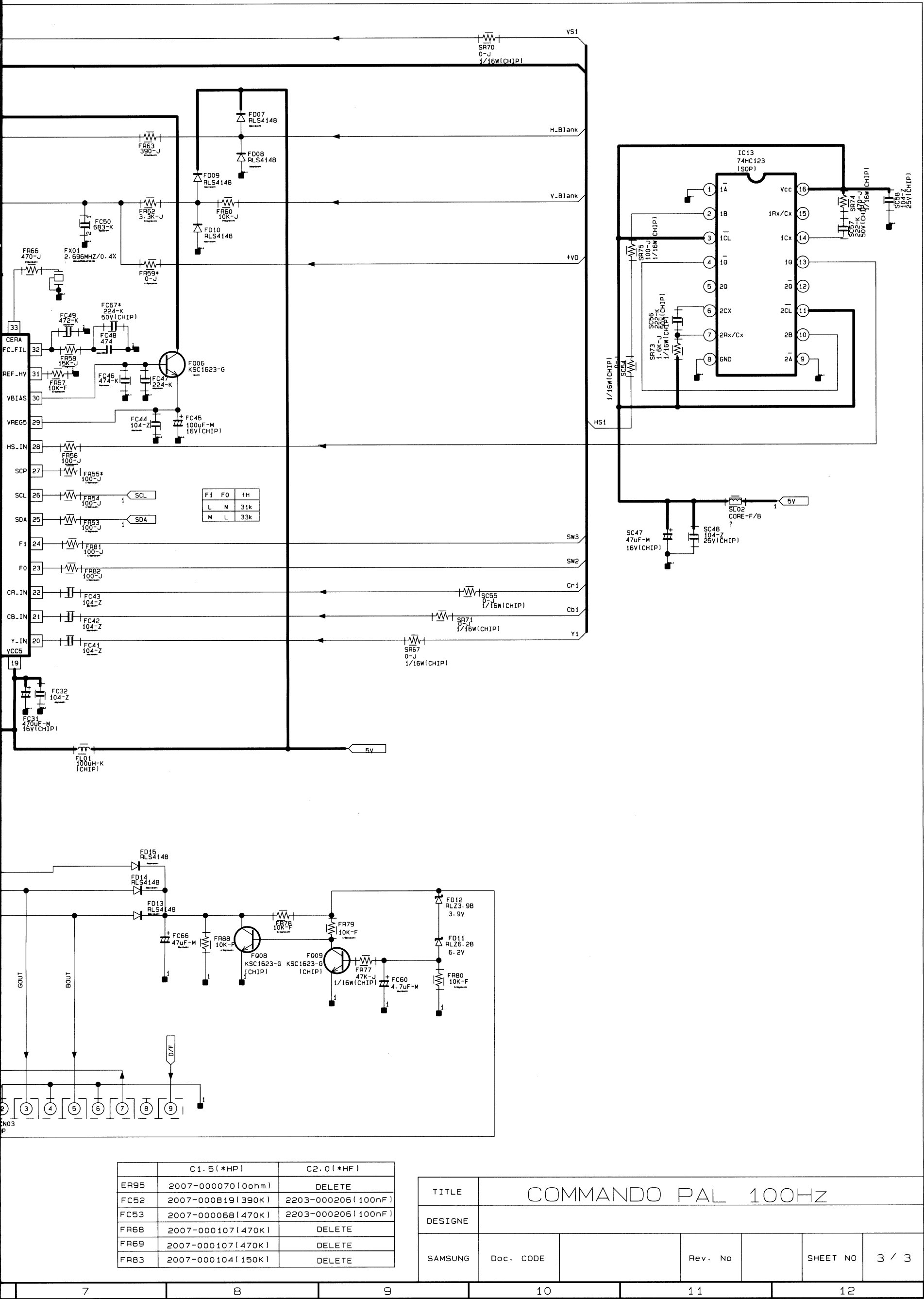
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10

11

12



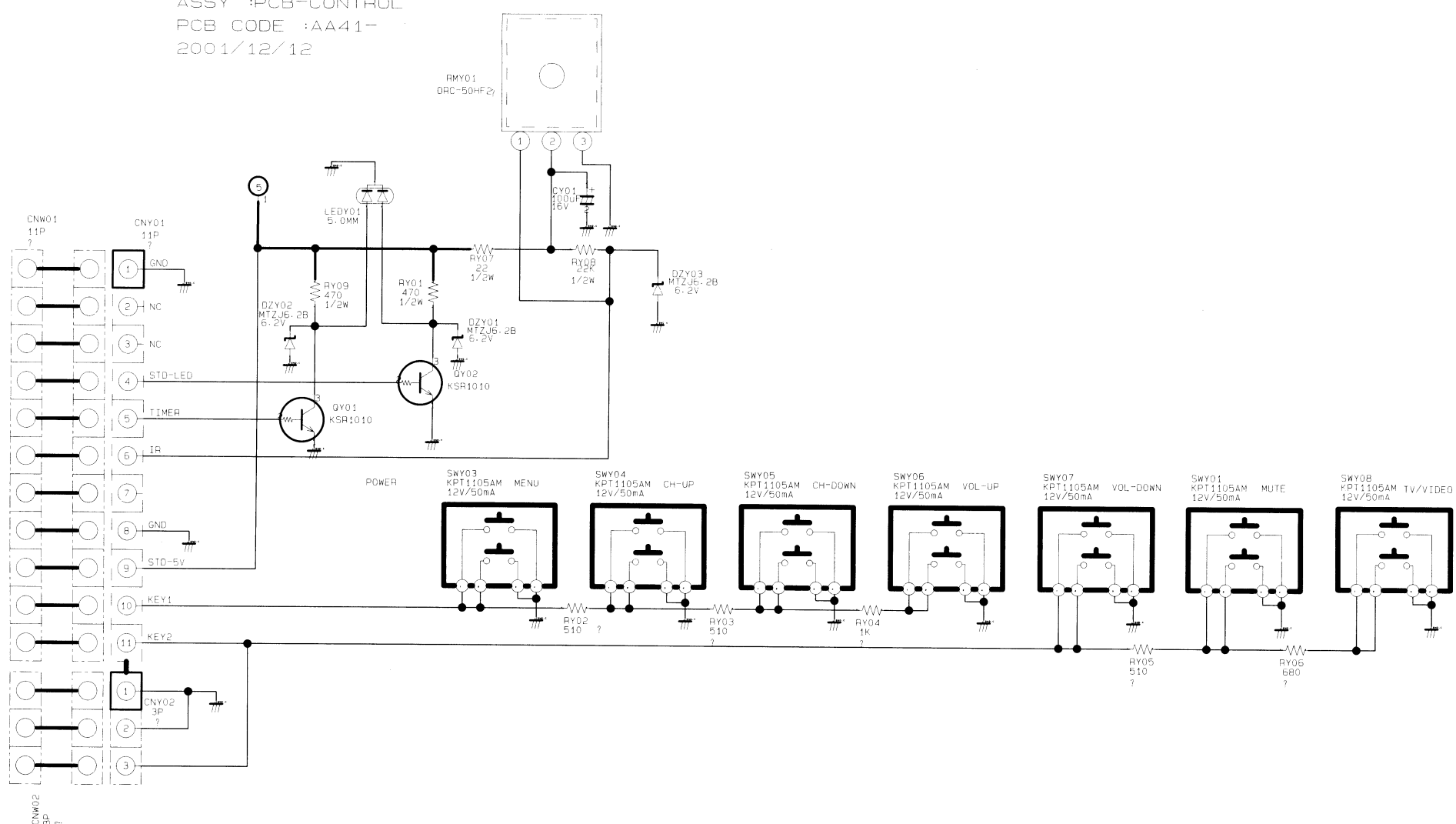


The schematic diagram illustrates the DY JACK circuit, which consists of three identical stages (DY1, DY2, and DY3) connected in series. Each stage contains a transformer and a 1A5T01 vacuum tube. The input to the first stage (DY1) is connected to a 10-100V selector switch and a 10-POWER input. The output of the first stage is connected to the input of the second stage (DY2), and the output of the second stage is connected to the input of the third stage (DY3). The output of the third stage is connected to a 10-100V selector switch and a 10-POWER input. The diagram also shows the internal wiring of each stage, including the transformer and the vacuum tube.

SENSOR

The diagram shows a sensor circuit. It includes three resistors: R01 (4.7M, 1/8W), R02 (4.7M, 1/8W), and R03 (2.2M, 1/8W). A diode D01 (S1133) is connected in parallel with R01. A transistor Q01 (KSC815-Y, TO-92) has its base connected to the junction of R02 and R03, its emitter to ground, and its collector to the junction of R01 and D01. The sensor module is connected to a 3-pin connector CN01 (3P, ?) with pins 1, 2, and 3.

CHASSIS :W3
MODEL : P54A, P56A, J52A, J53A ALL MODEL
ASSY :PCB-CONTROL
PCB CODE :AA41-
2001/12/12



5-16 CG AMP

